

FIG. 1

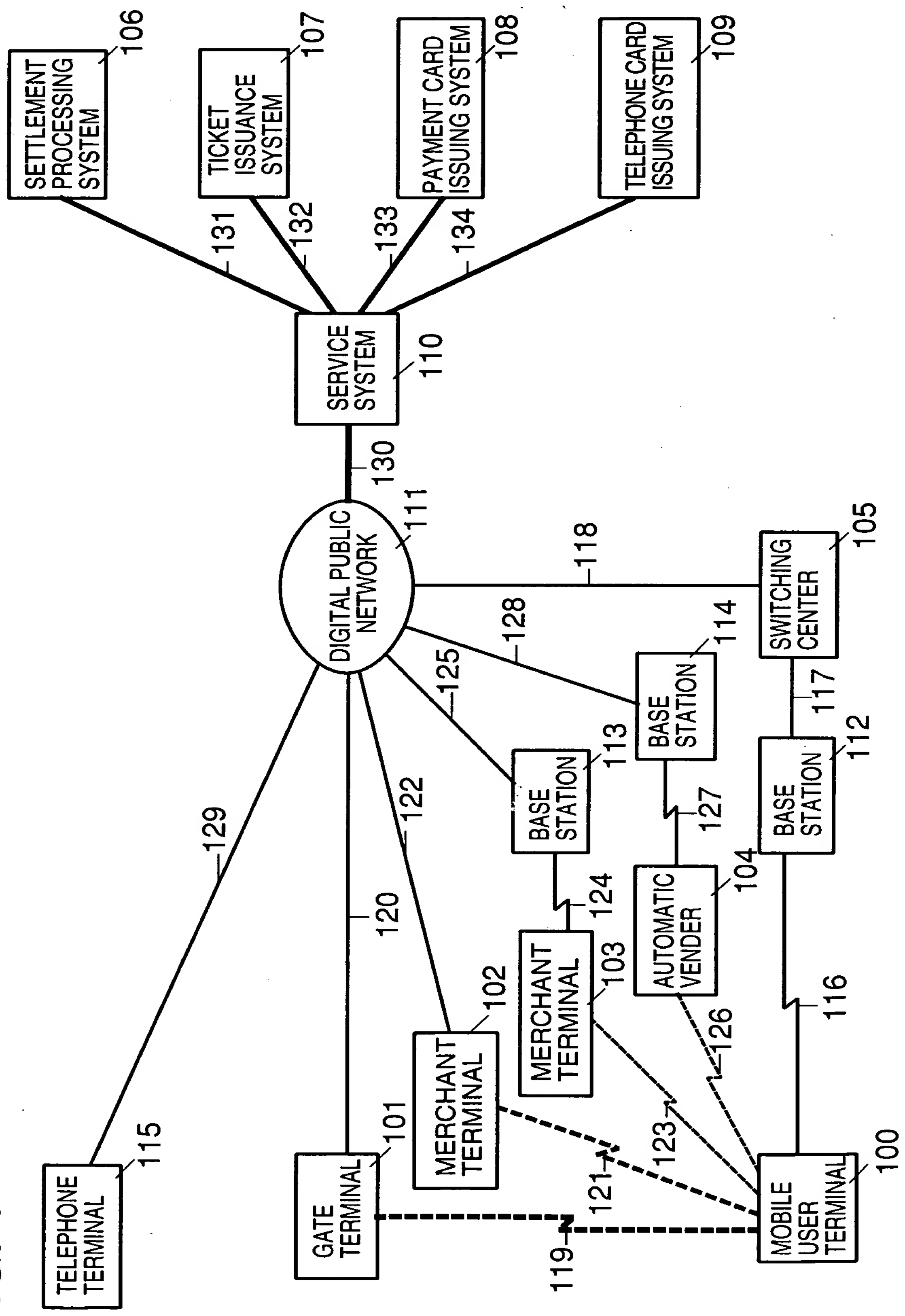


FIG. 2A

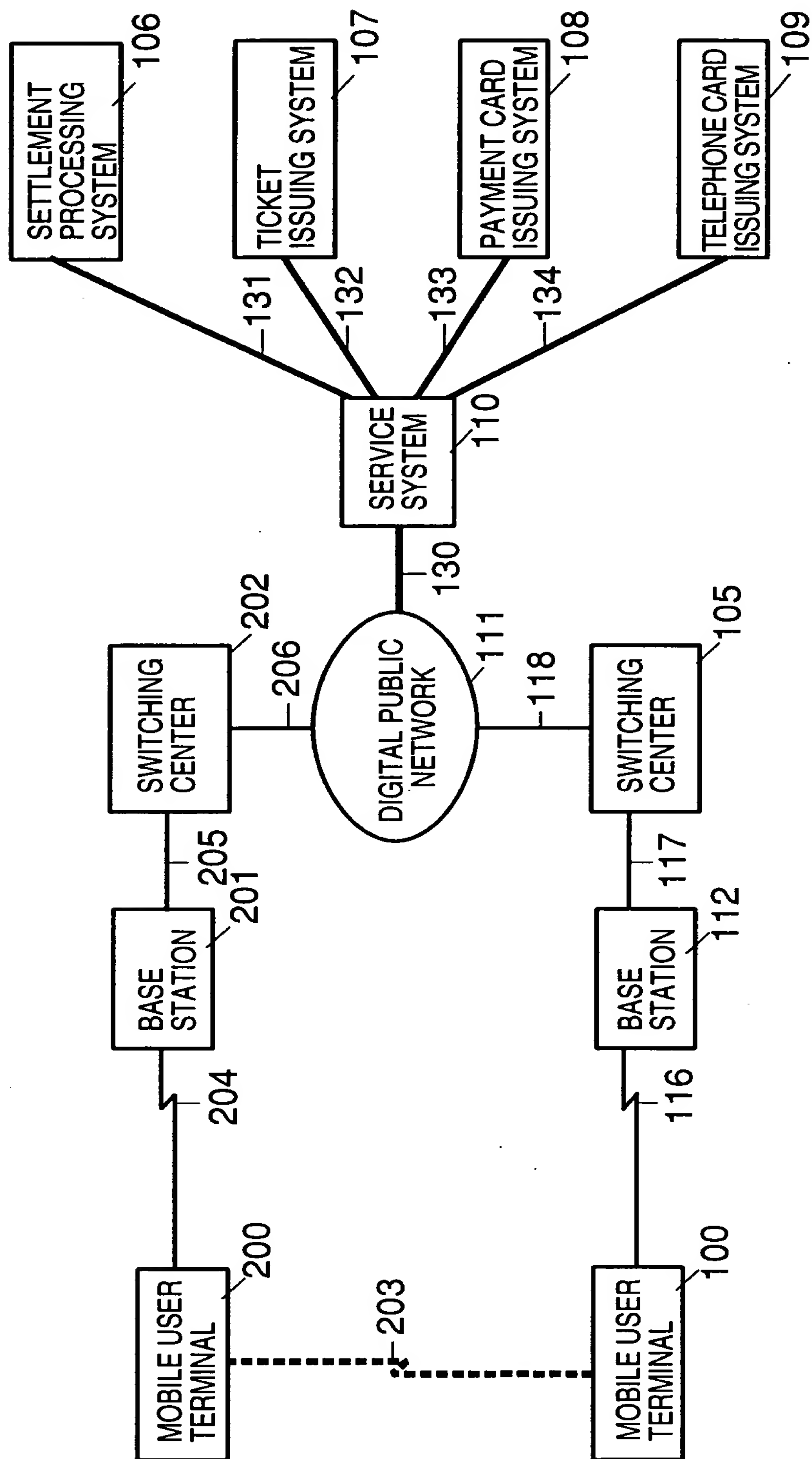


FIG. 2B

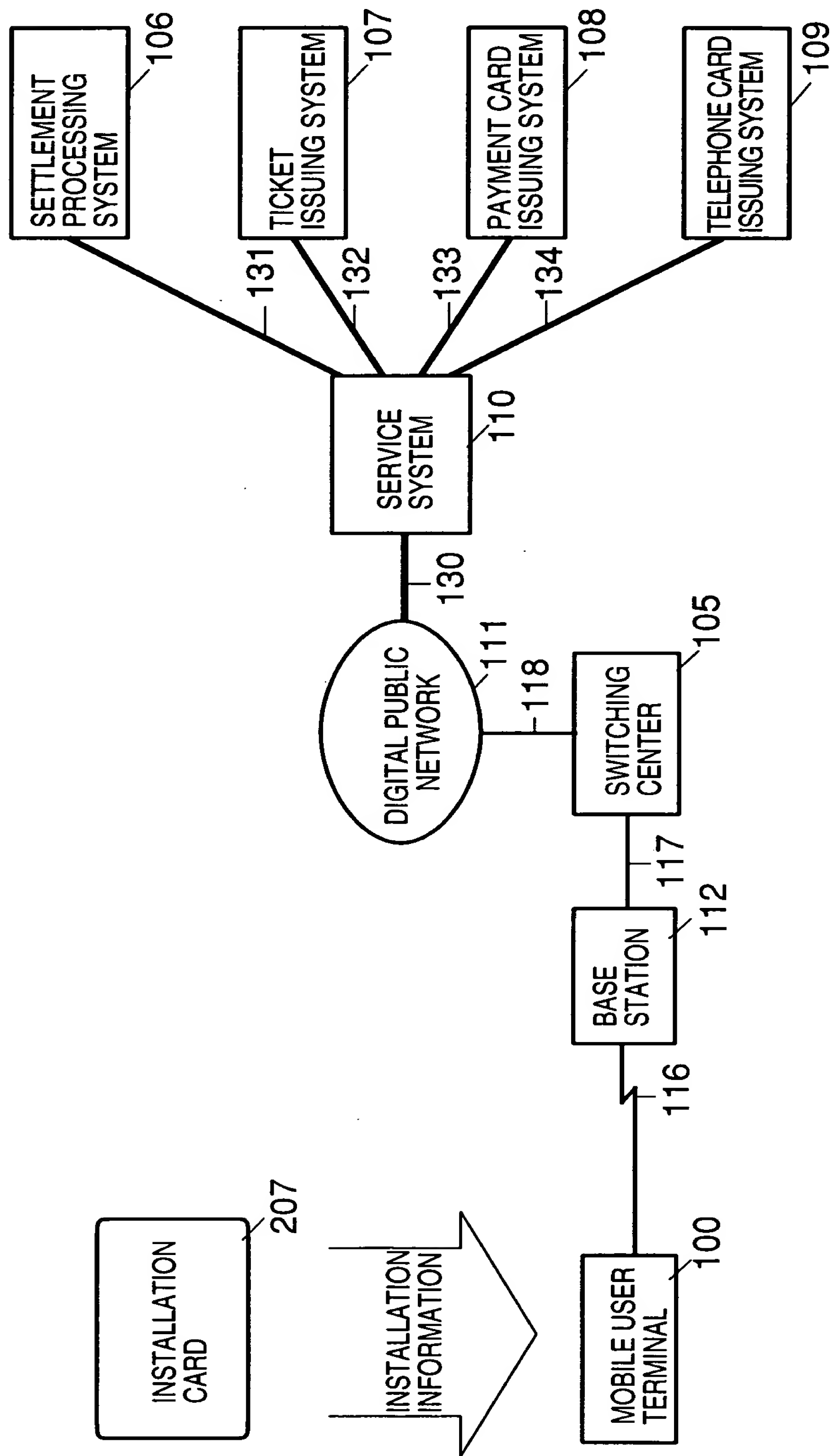


FIG. 3C

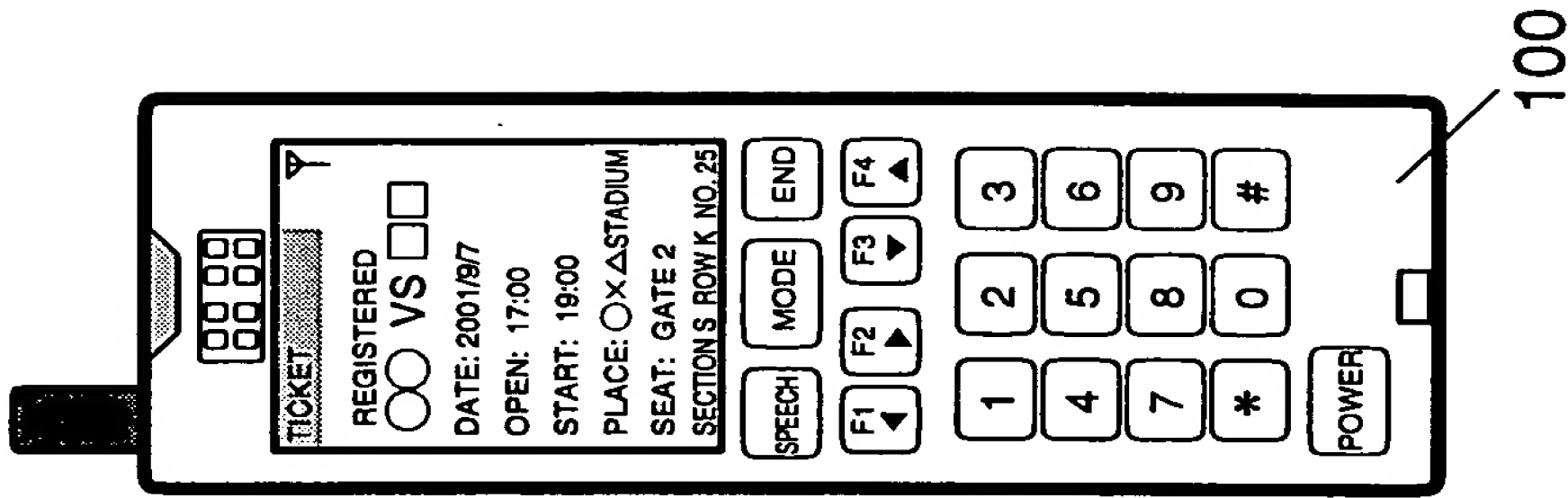


FIG. 3B

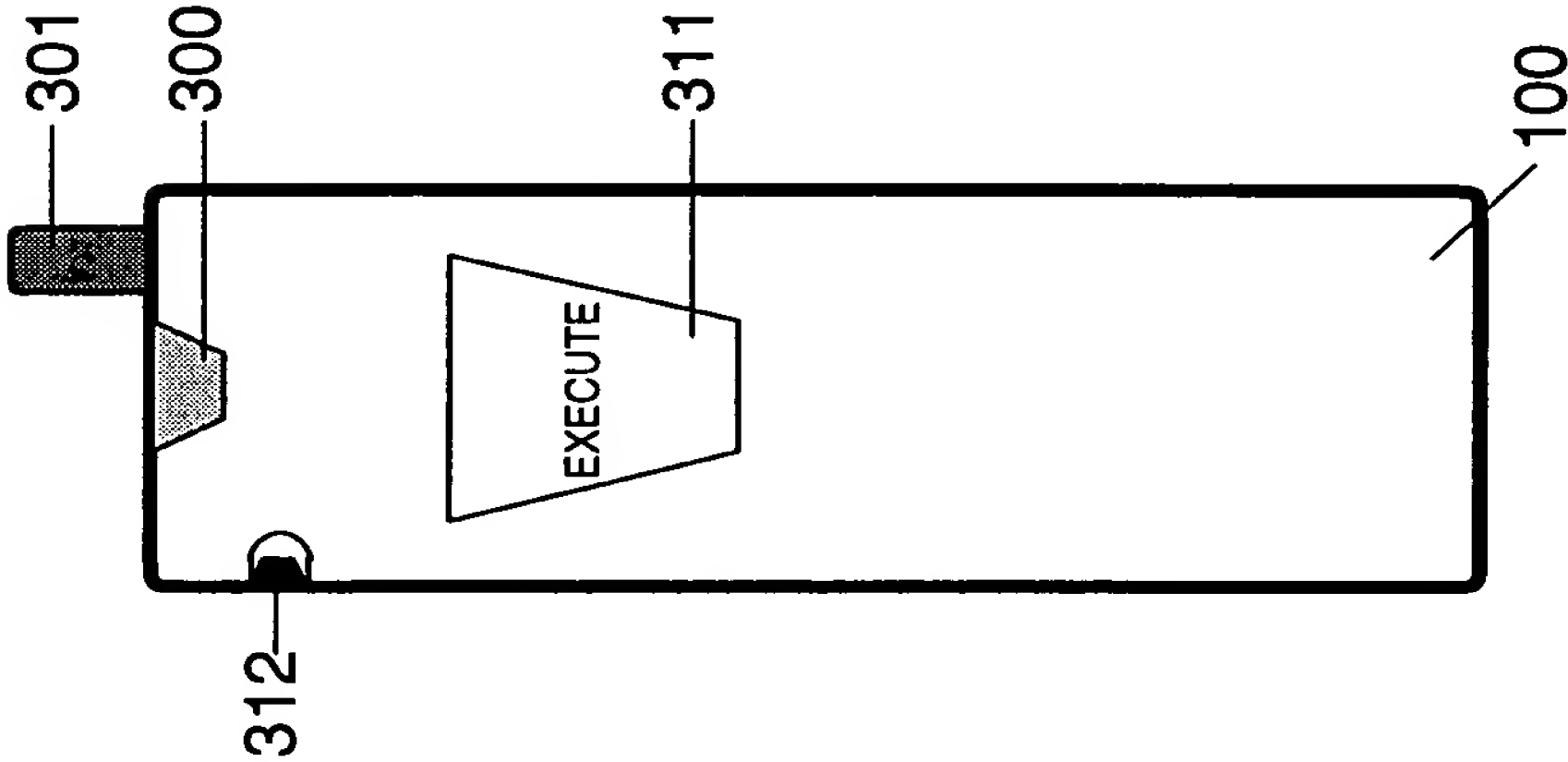
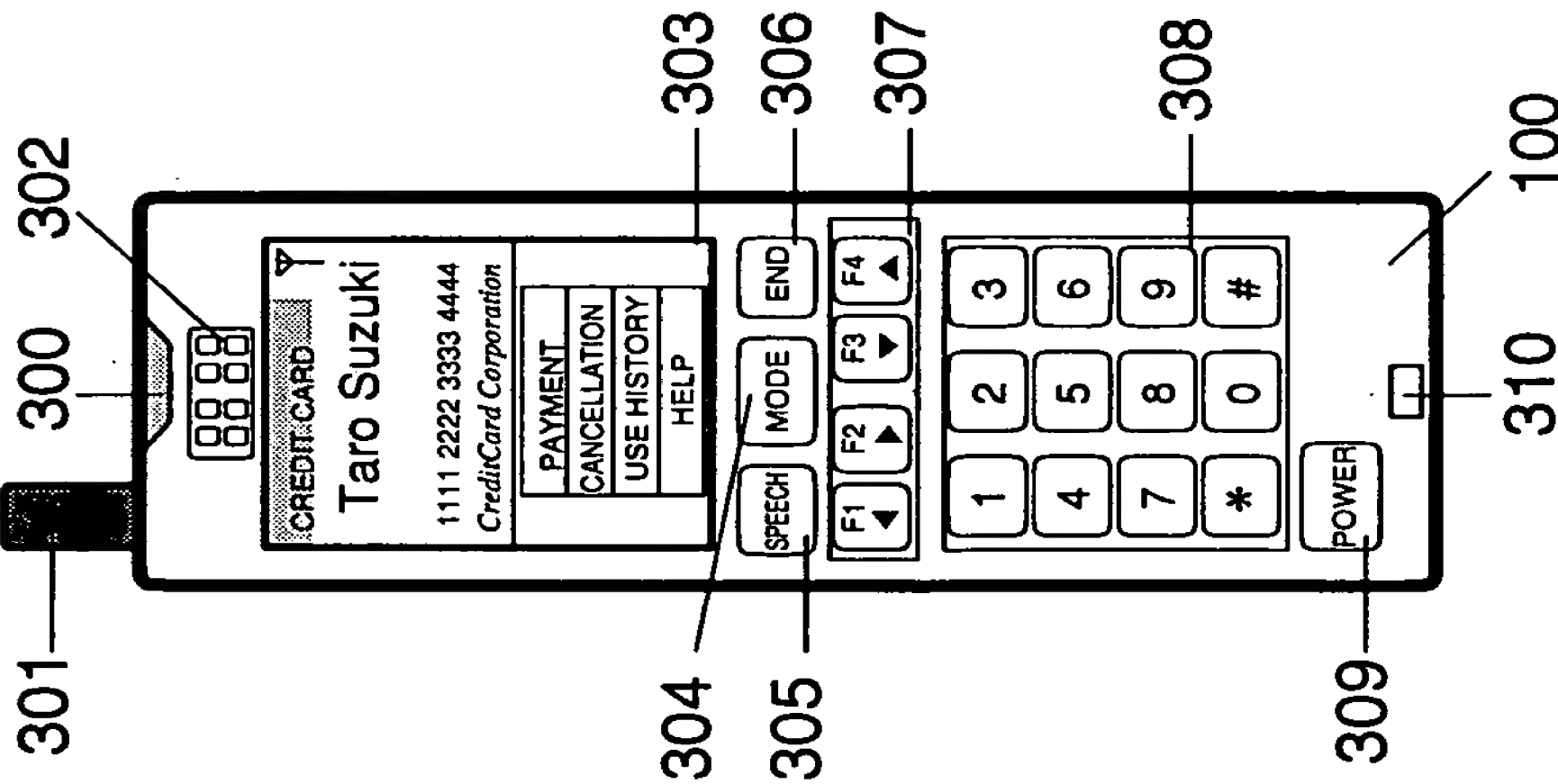
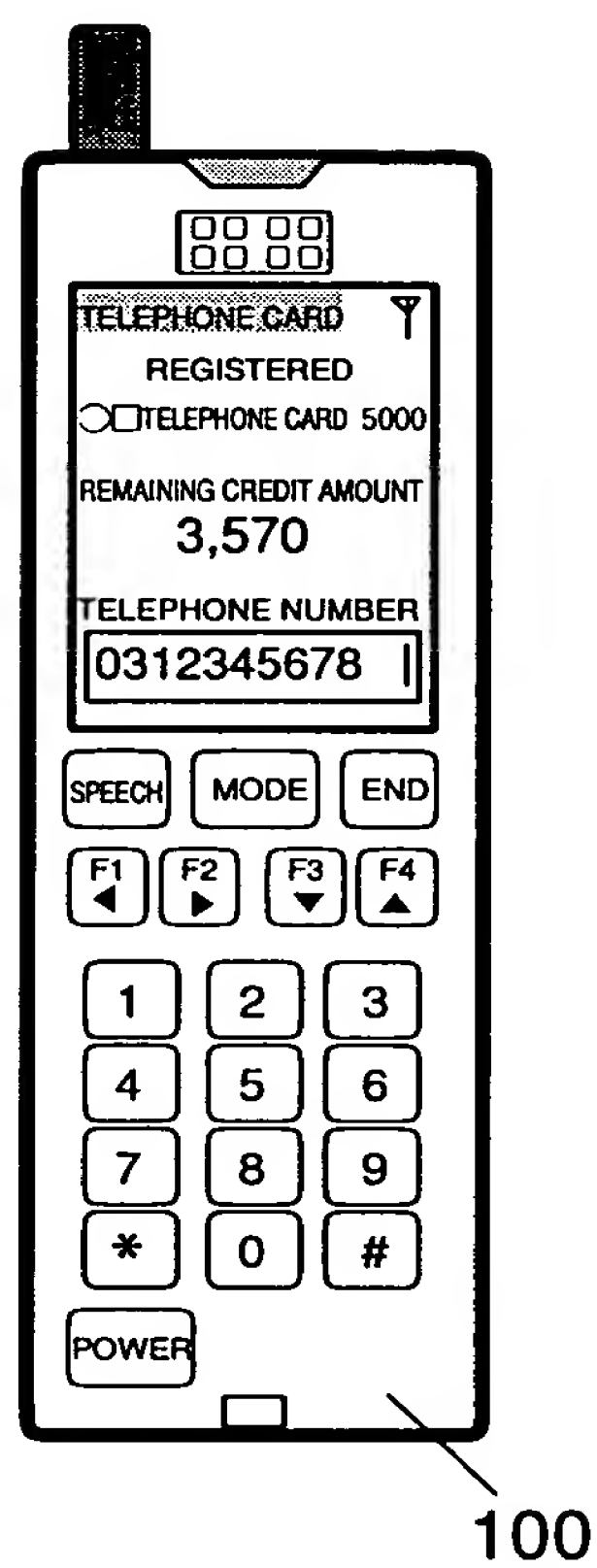


FIG. 3A





**FIG. 3E**

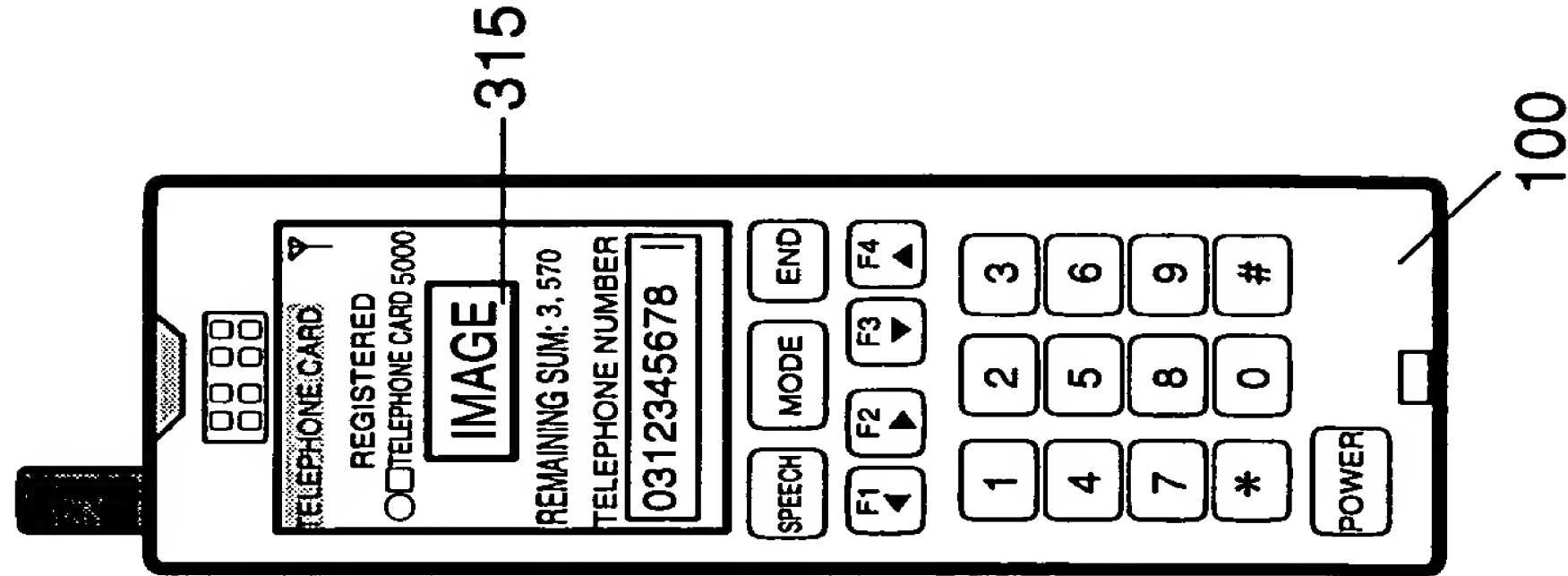
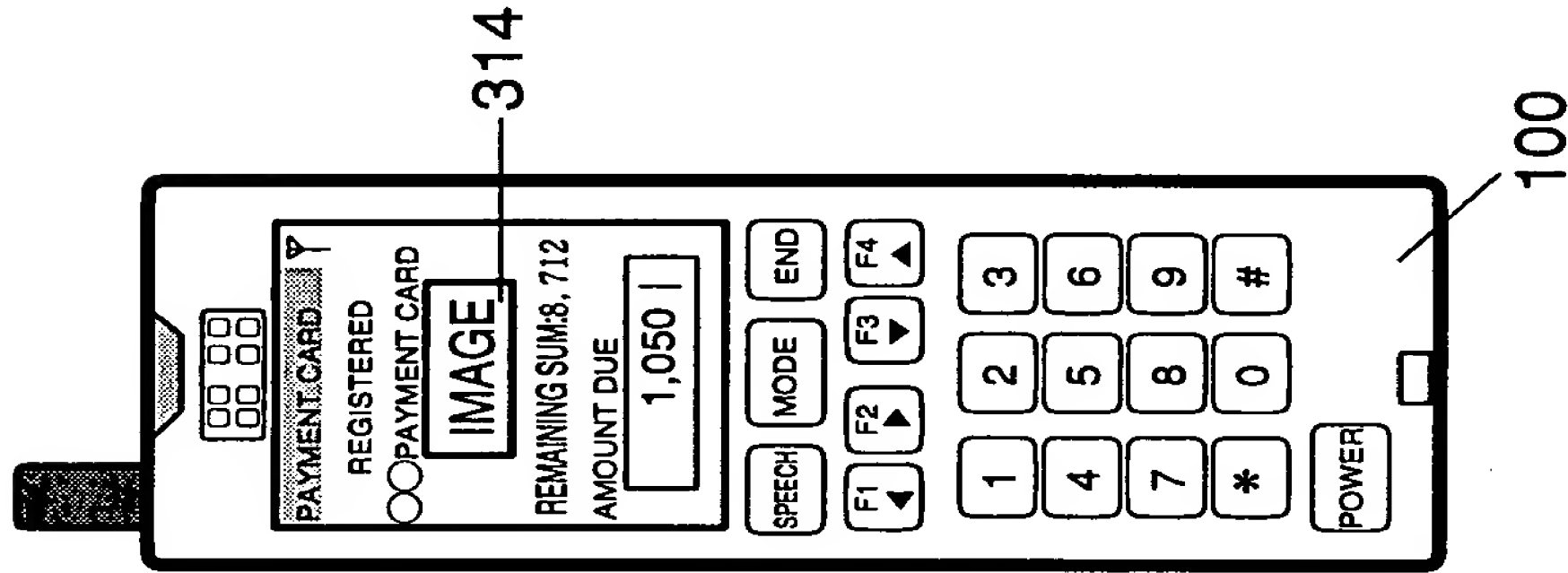
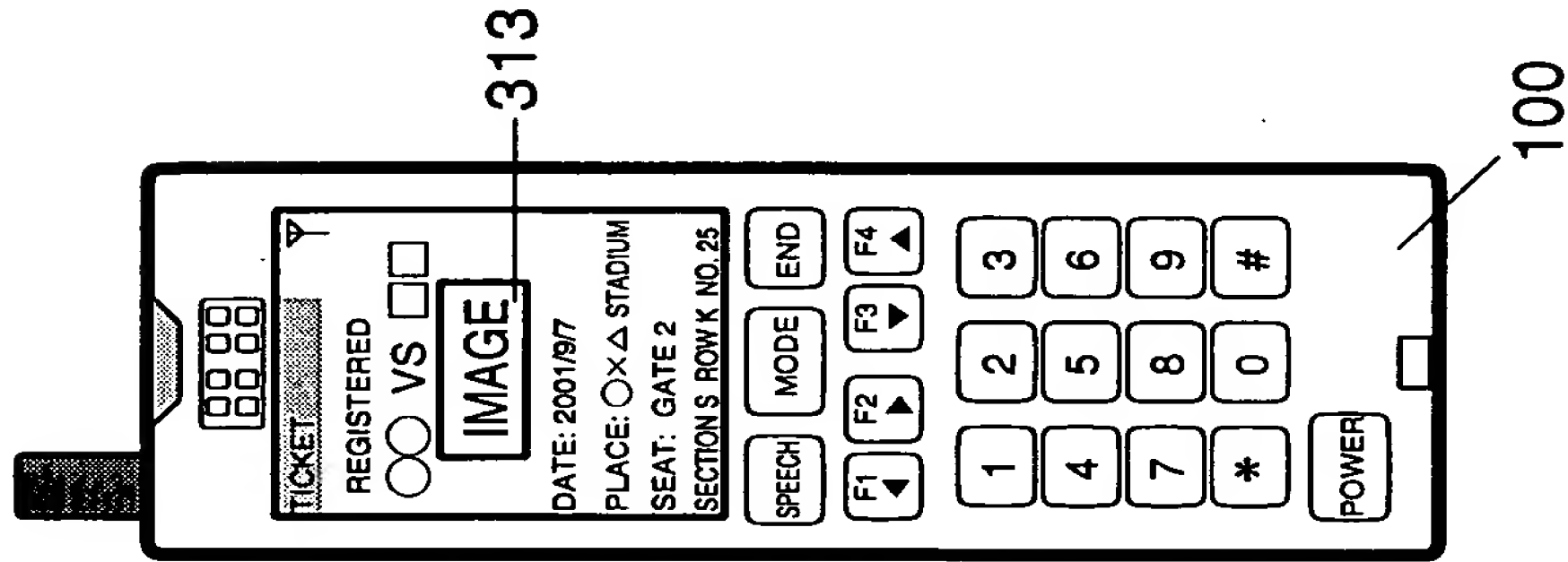


MOBILE USER TERMINAL

FIG. 3F

FIG. 3G

FIG. 3H



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FIG. 4

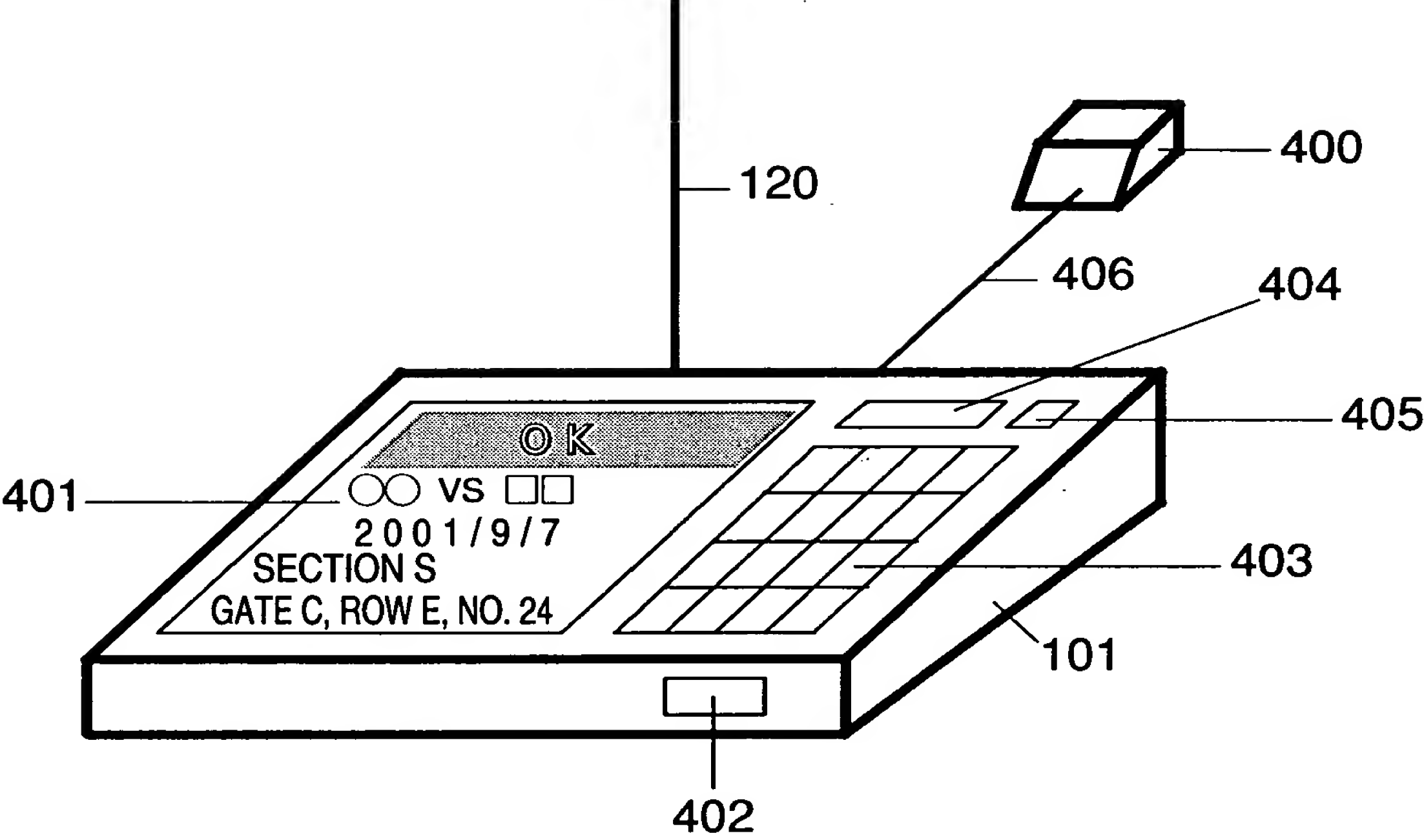
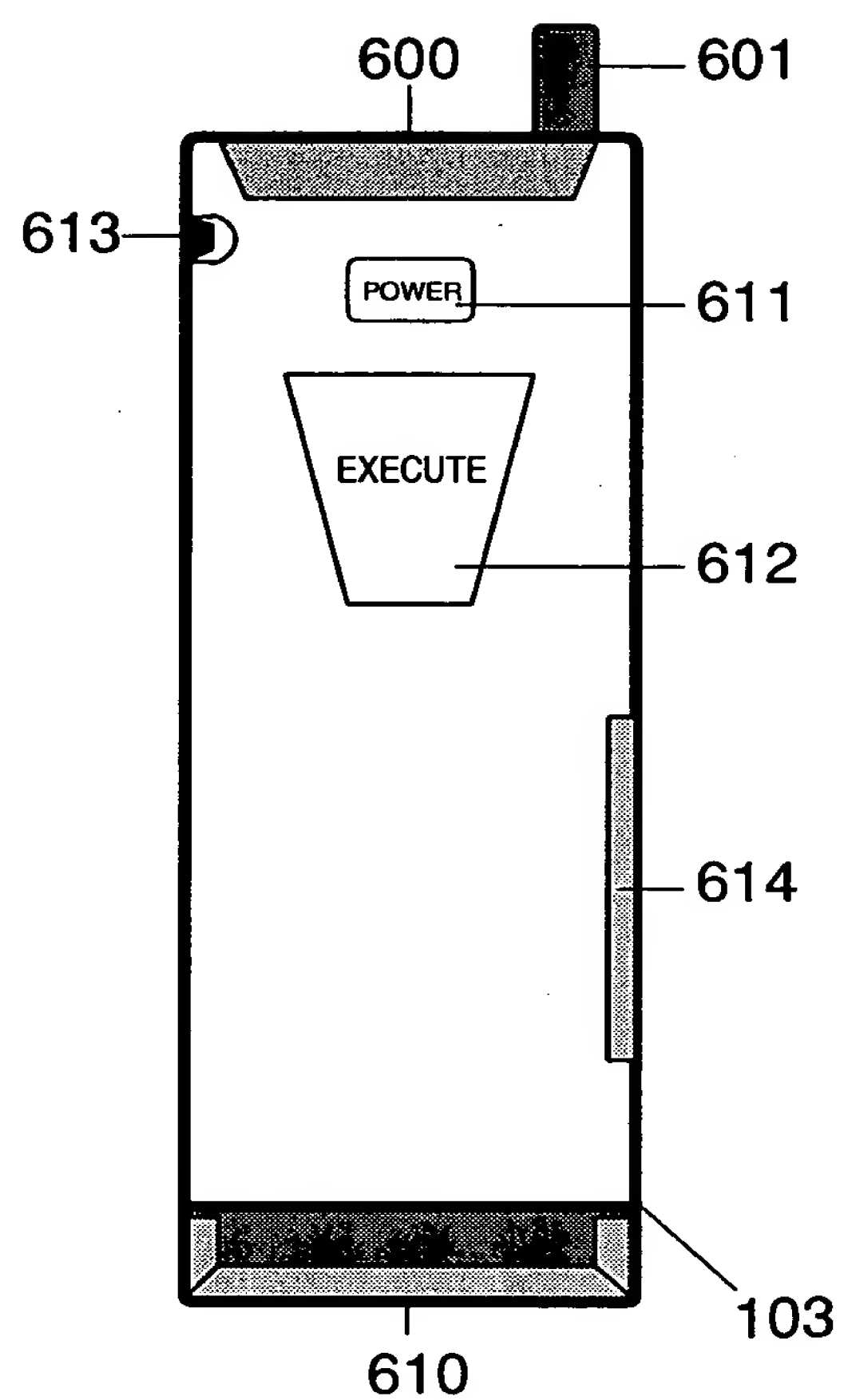
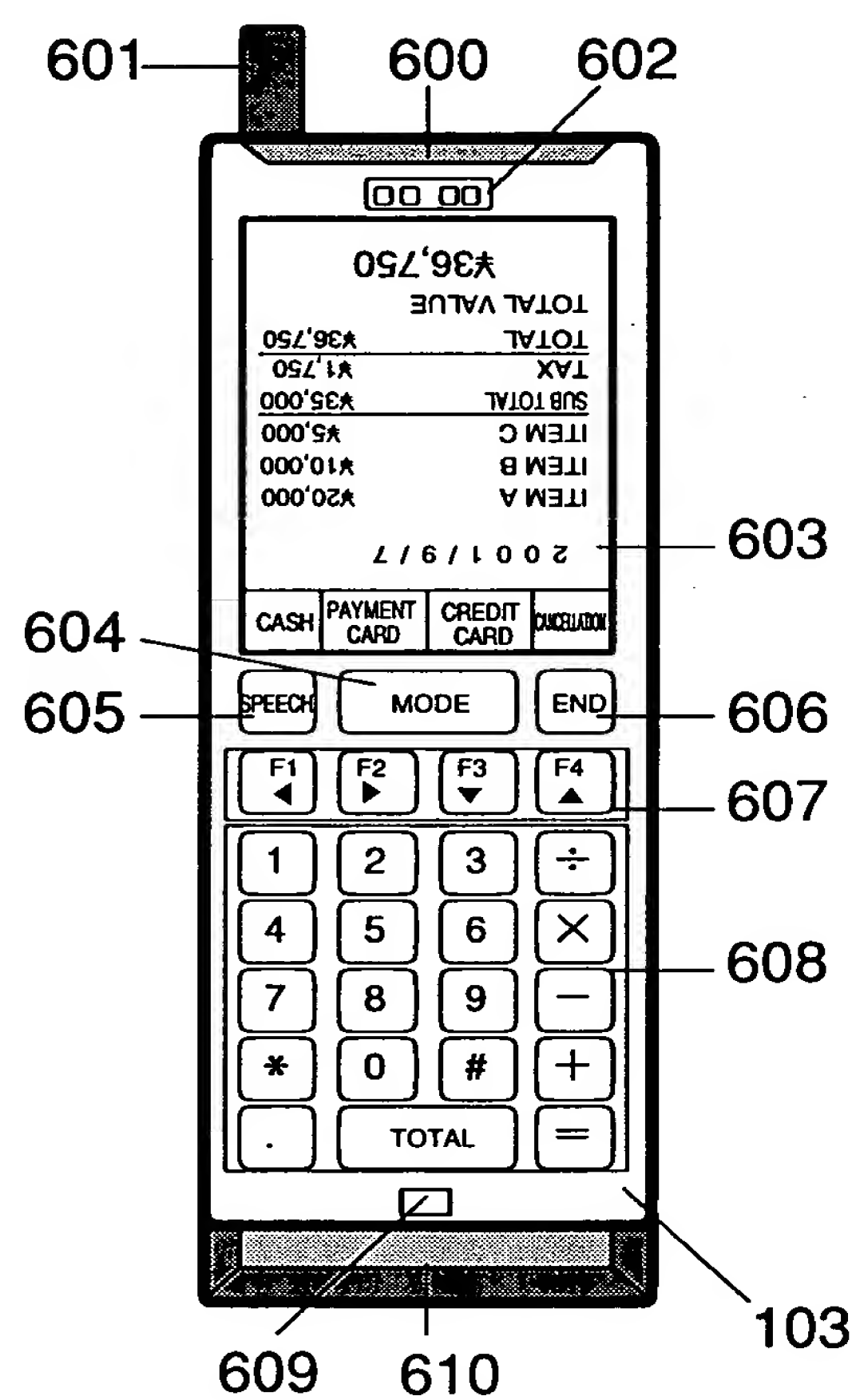




FIG. 6A

FIG. 6B



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FIG. 7

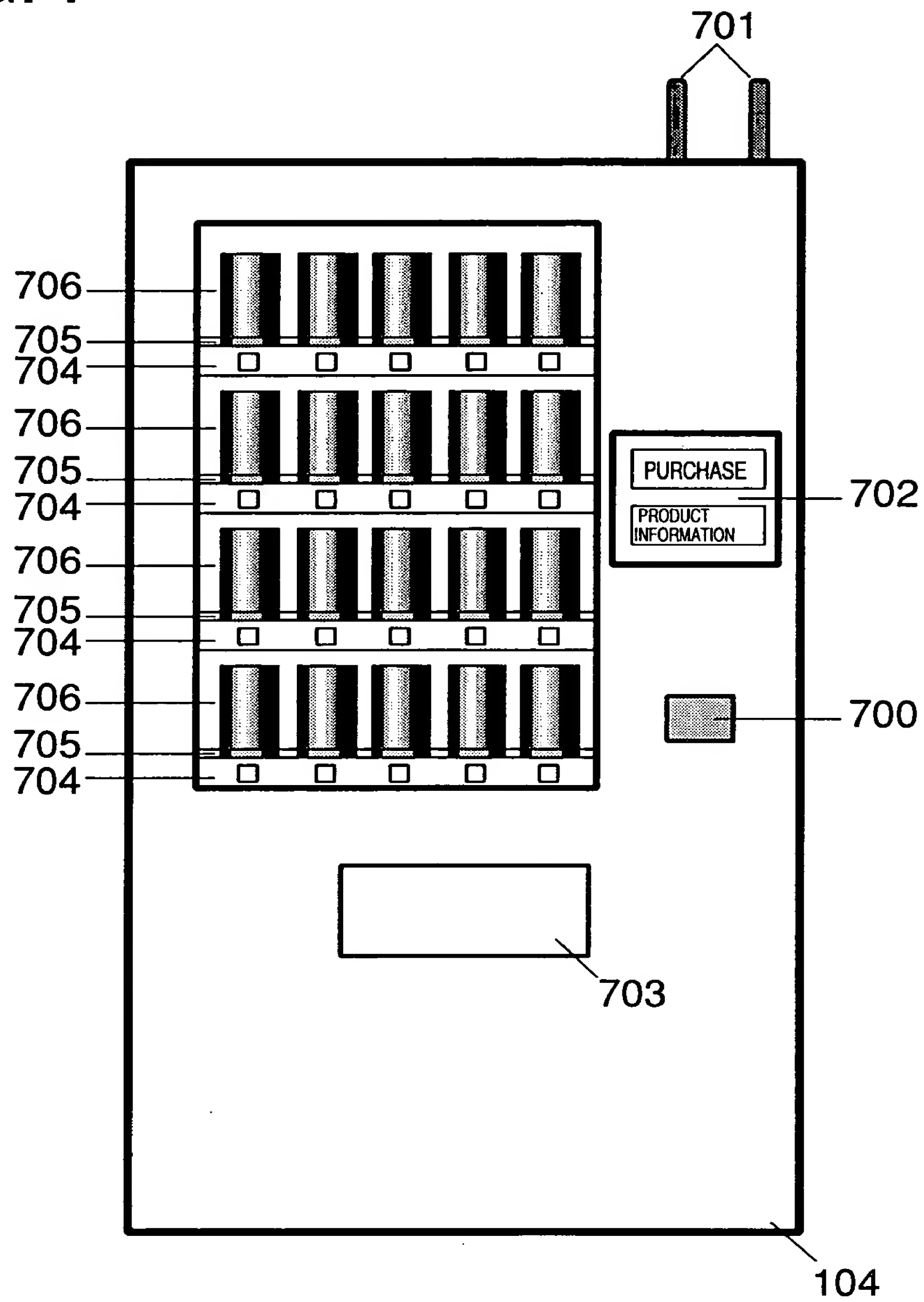
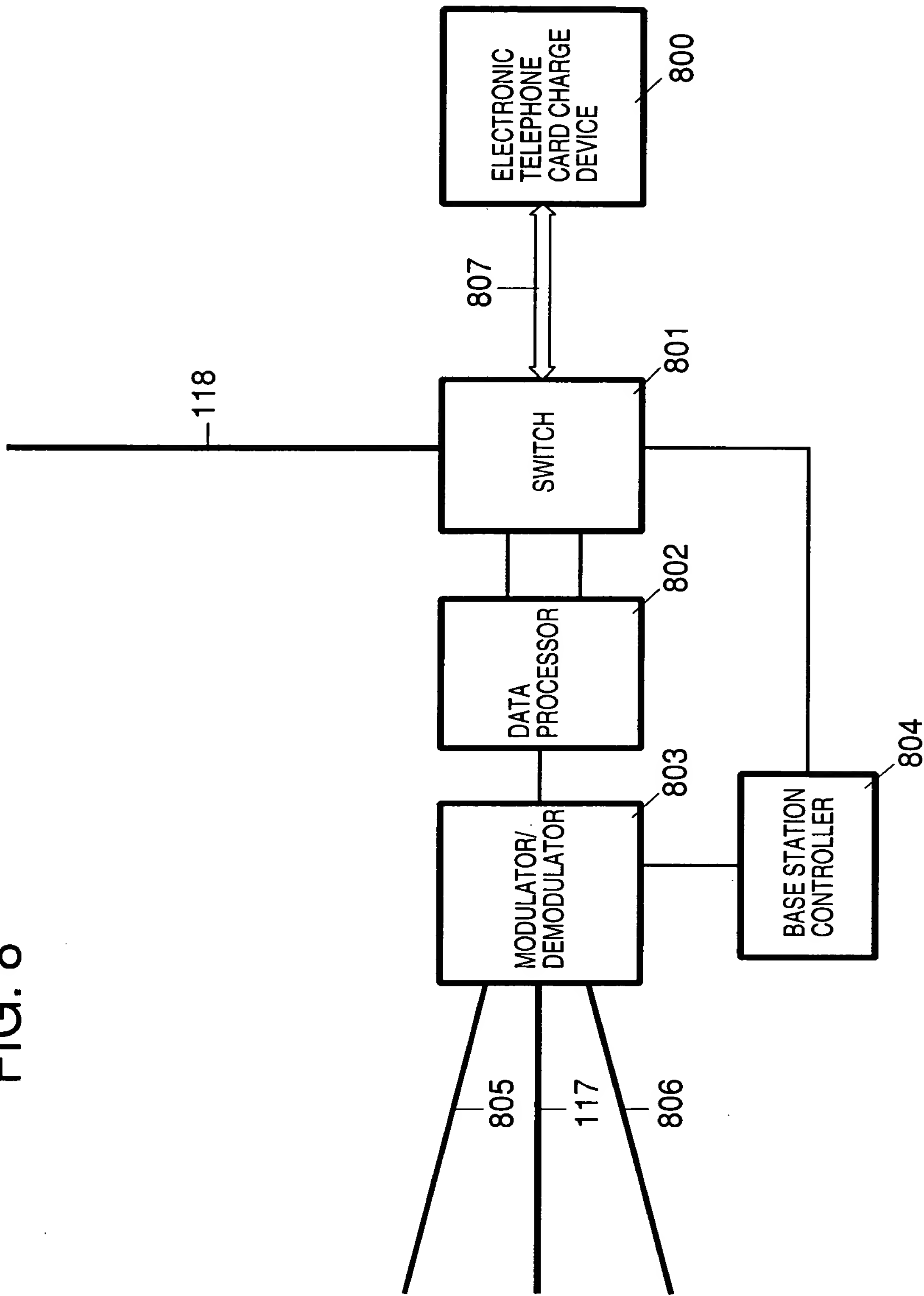


FIG. 8



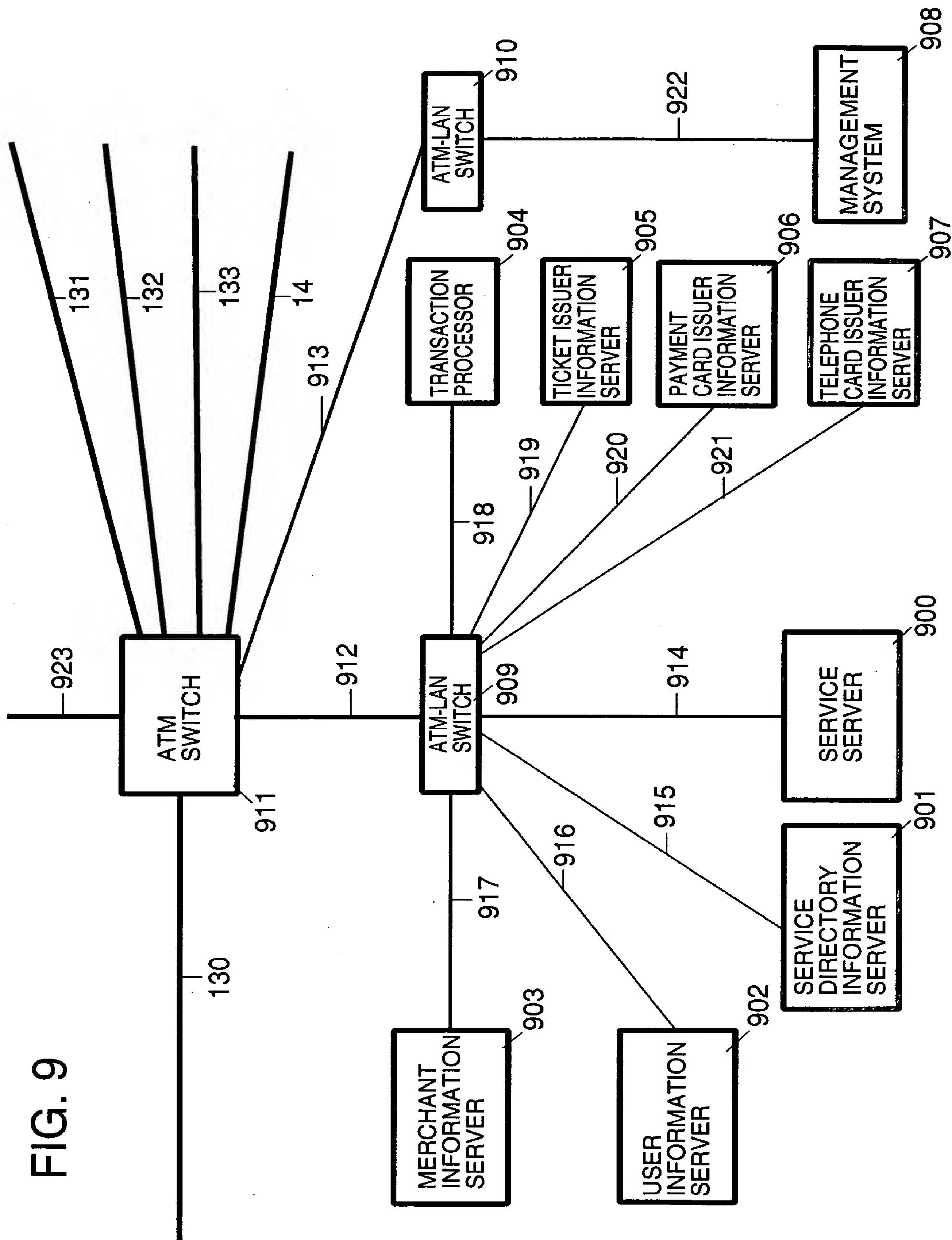




FIG. 10

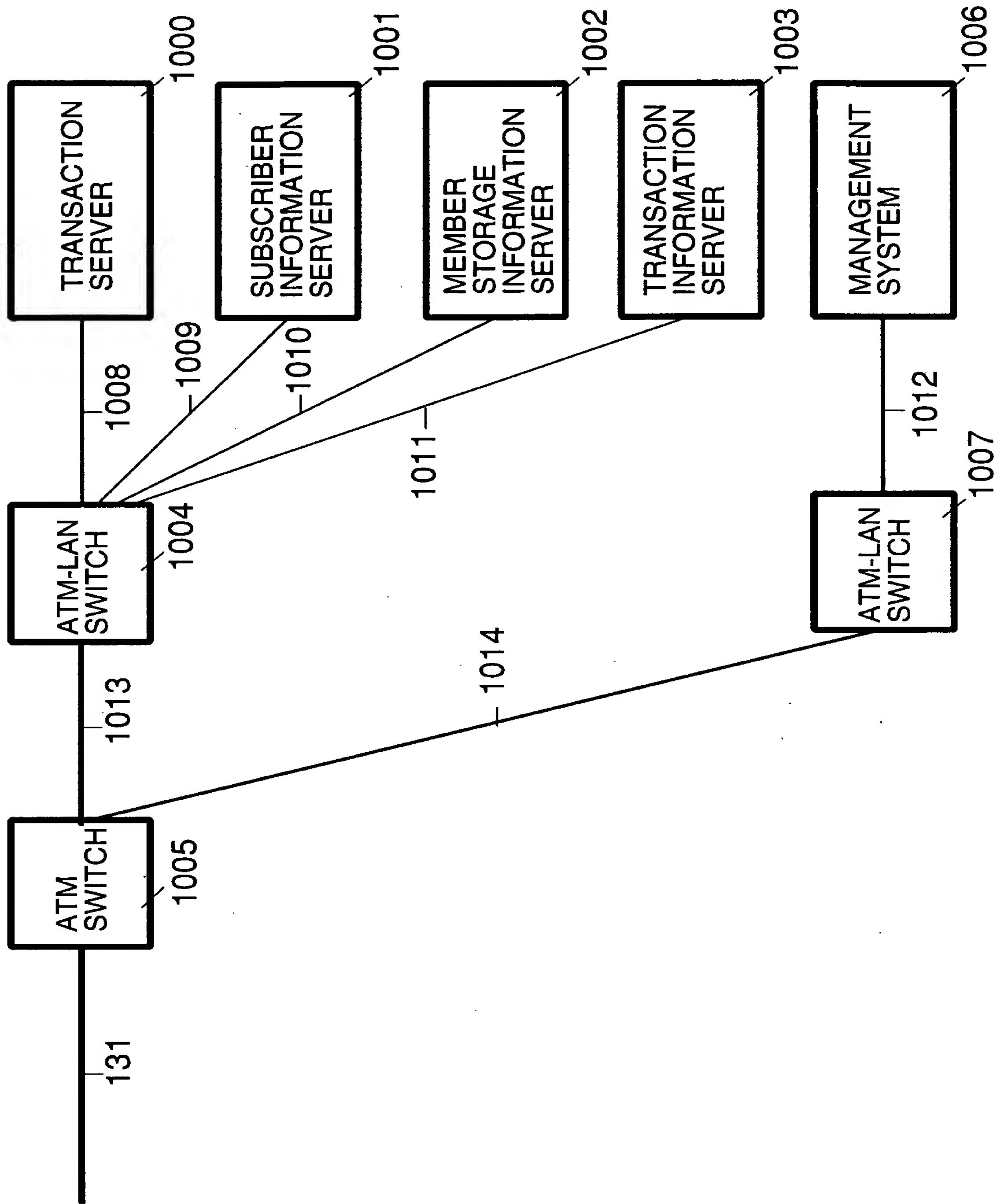


FIG. 11

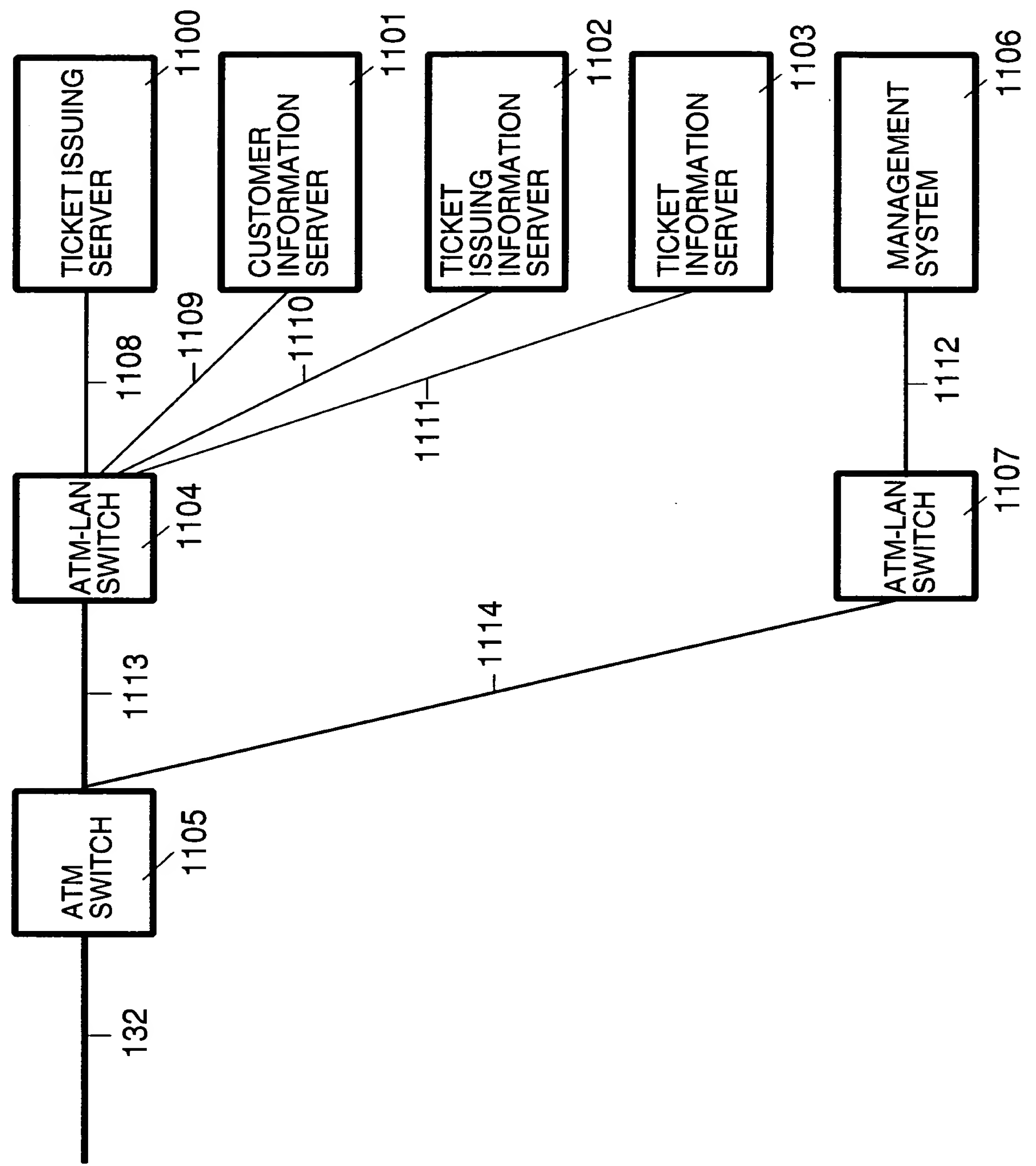


FIG. 12

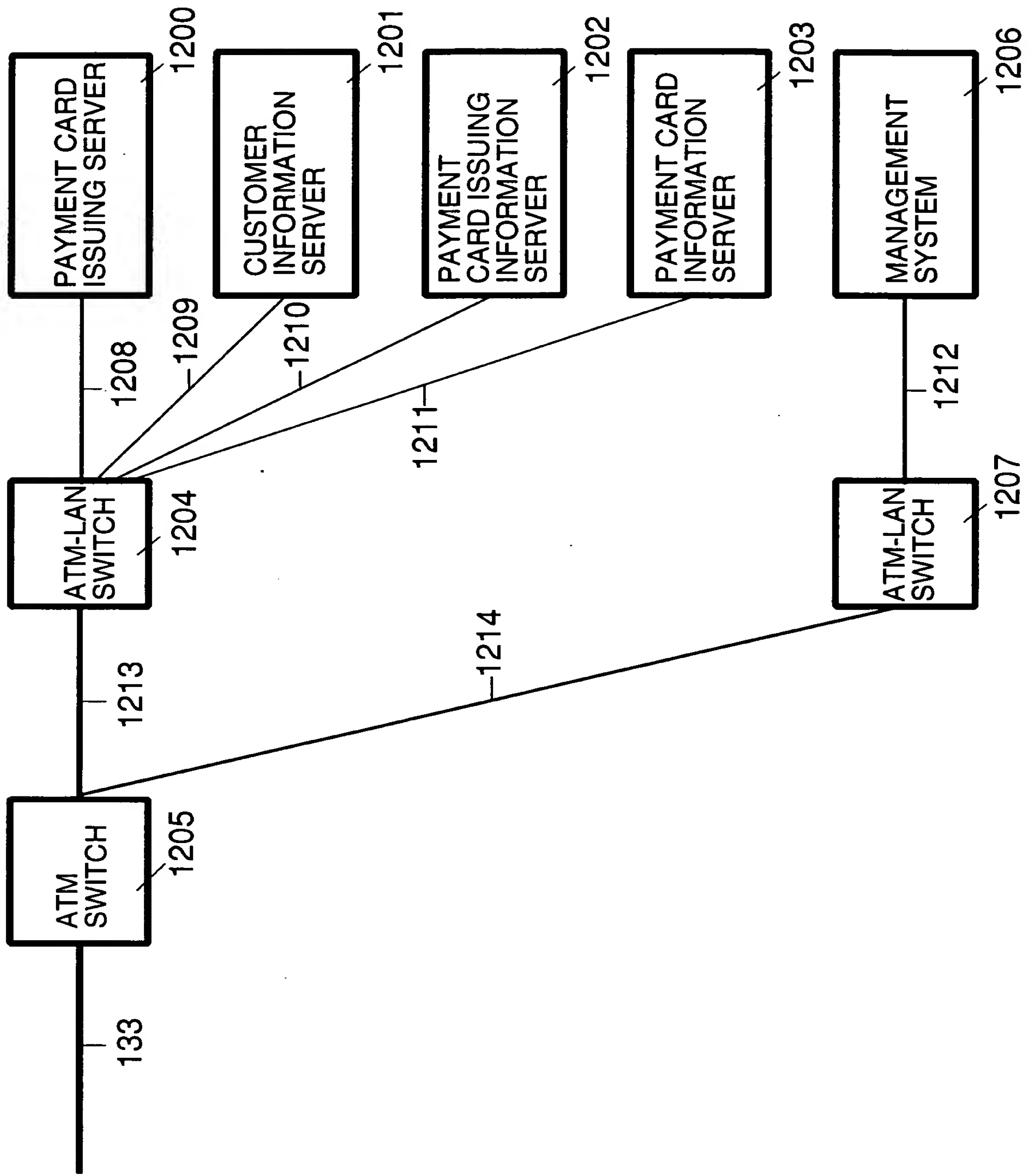


FIG. 13

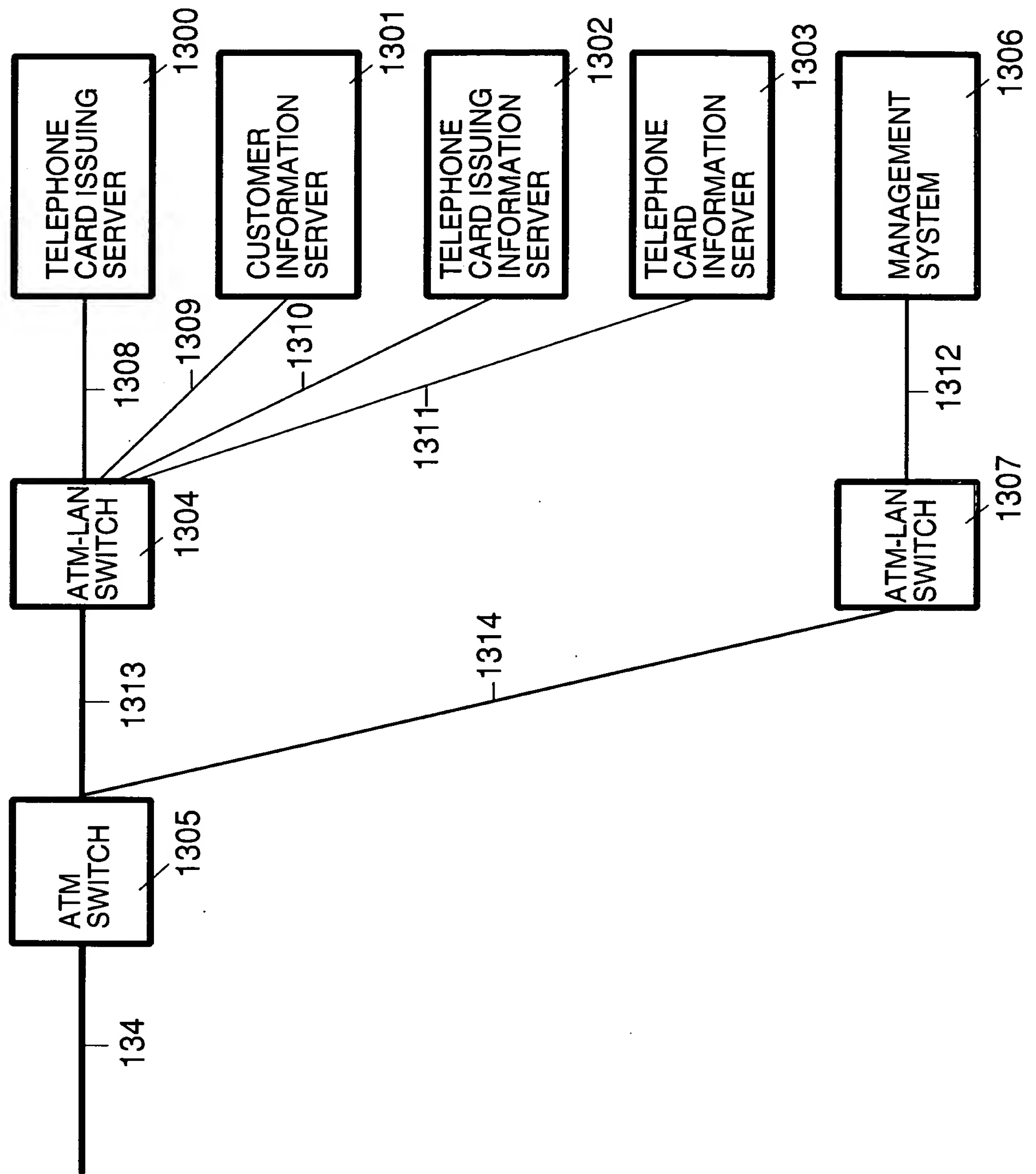


FIG. 14A

FIG. 14B

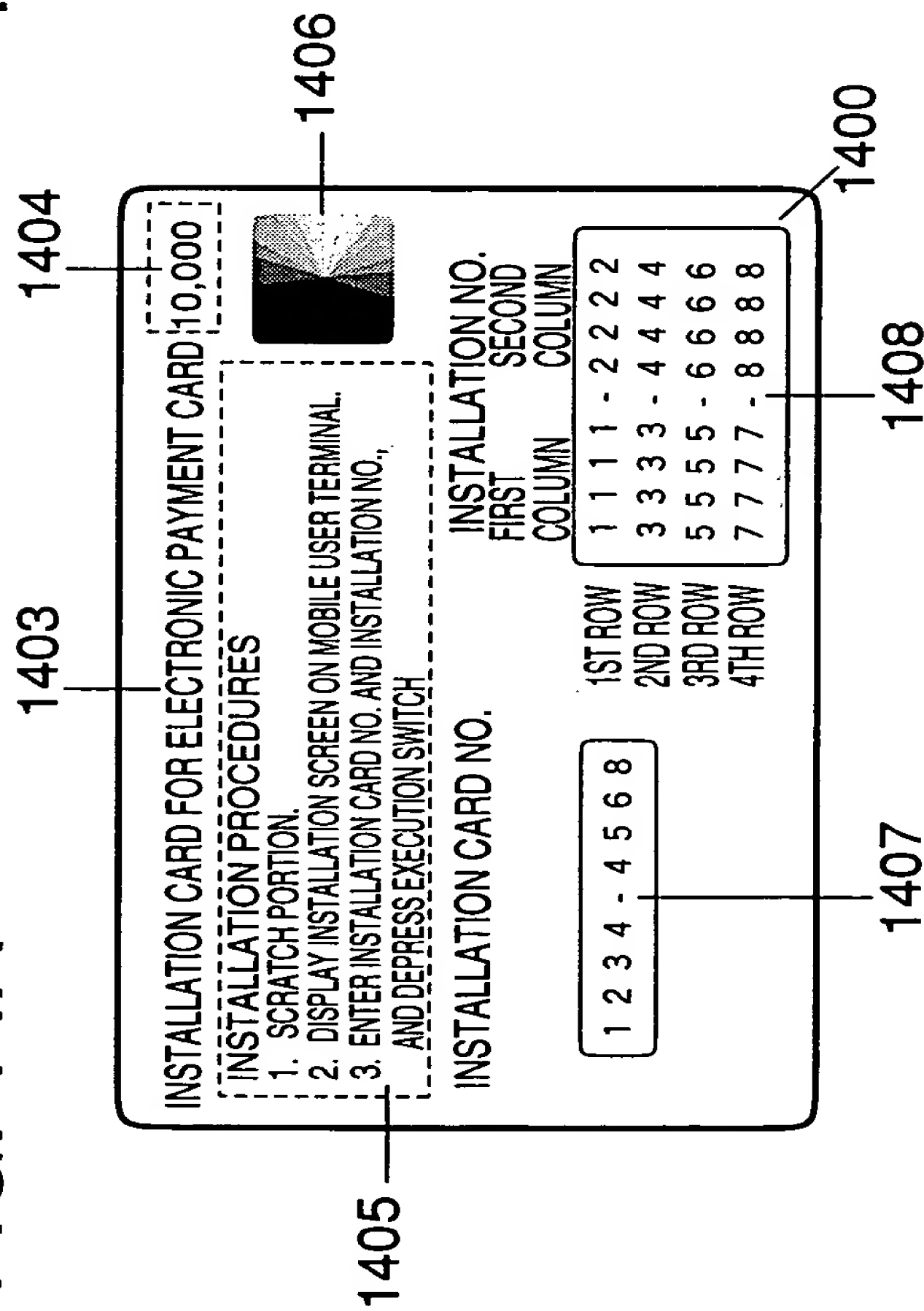


FIG. 14C

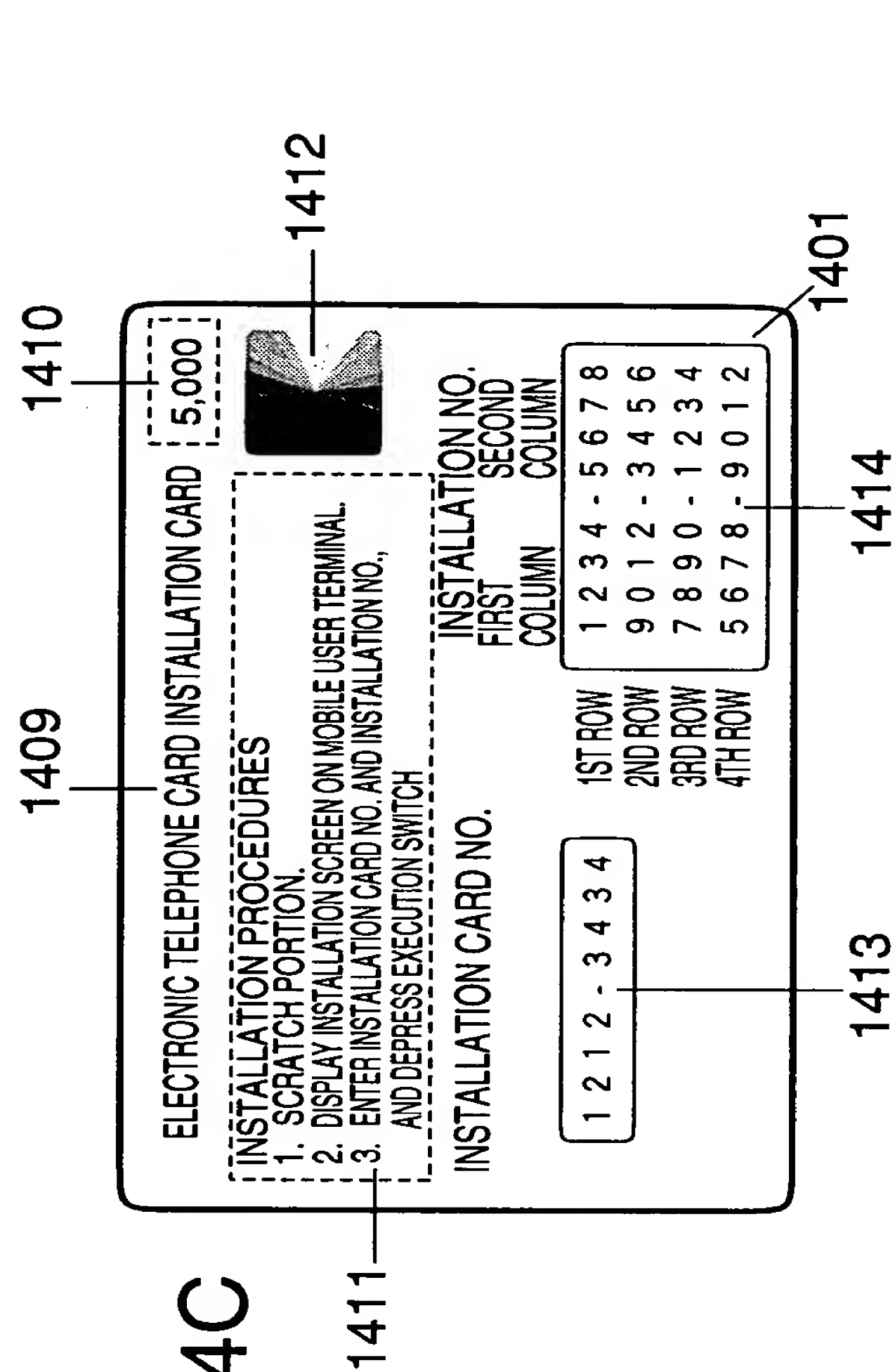


FIG. 14D

○○○ COMPANY

ON ○△□ CAMPAIGN

CALL FOR: TEL xxxx-xxxxxx

FIG. 14F

○○○□□□ EXHIBITION

PERIOD : 2001/9/7 TO 9/30  
TIME : 10:00 TO 17:00  
PLACE : ○△□ MUSEUM  
SPONSORED BY: △△△ NEWS COMPANY  
CALL FOR : TEL xx-xxxx-xxxx

FIG. 14E

ELECTRONIC TICKET INSTALL CARD 2001.09.07

INSTALLATION PROCEDURES  
1. SCRATCH PORTION.  
2. DISPLAY INSTALLATION SCREEN ON MOBILE USER TERMINAL.  
3. ENTER INSTALLATION CARD NO. AND INSTALLATION NO.,  
AND DEPRESS EXECUTION SWITCH

INSTALLATION CARD NO.  
1 2 1 2 - 7 8 7 8

INSTALLATION NO.  
FIRST COLUMN SECOND COLUMN  
8 8 8 8 - 1 1 1 1  
6 6 6 6 - 3 3 3 3  
4 4 4 4 - 5 5 5 5  
2 2 2 2 - 7 7 7 7

FIG. 15

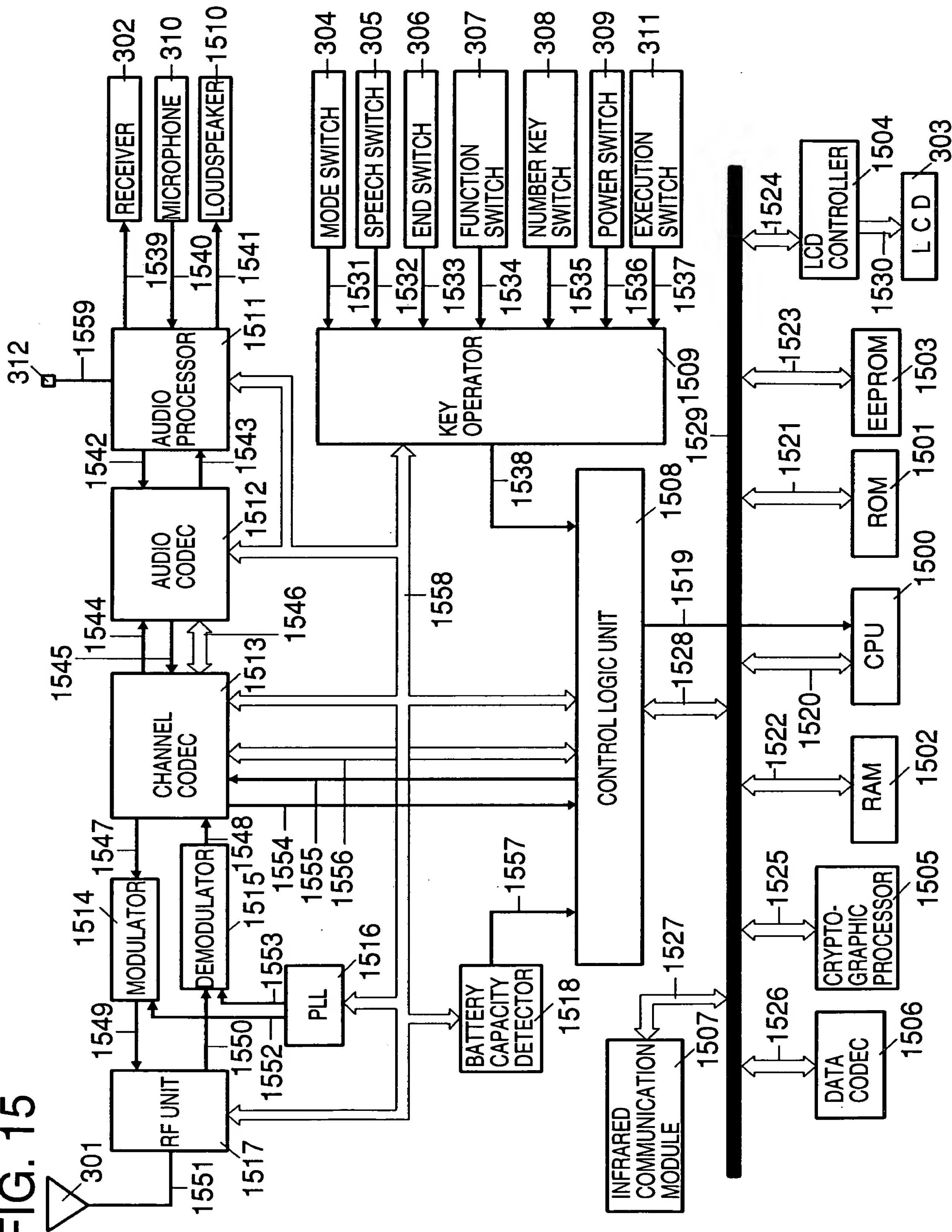
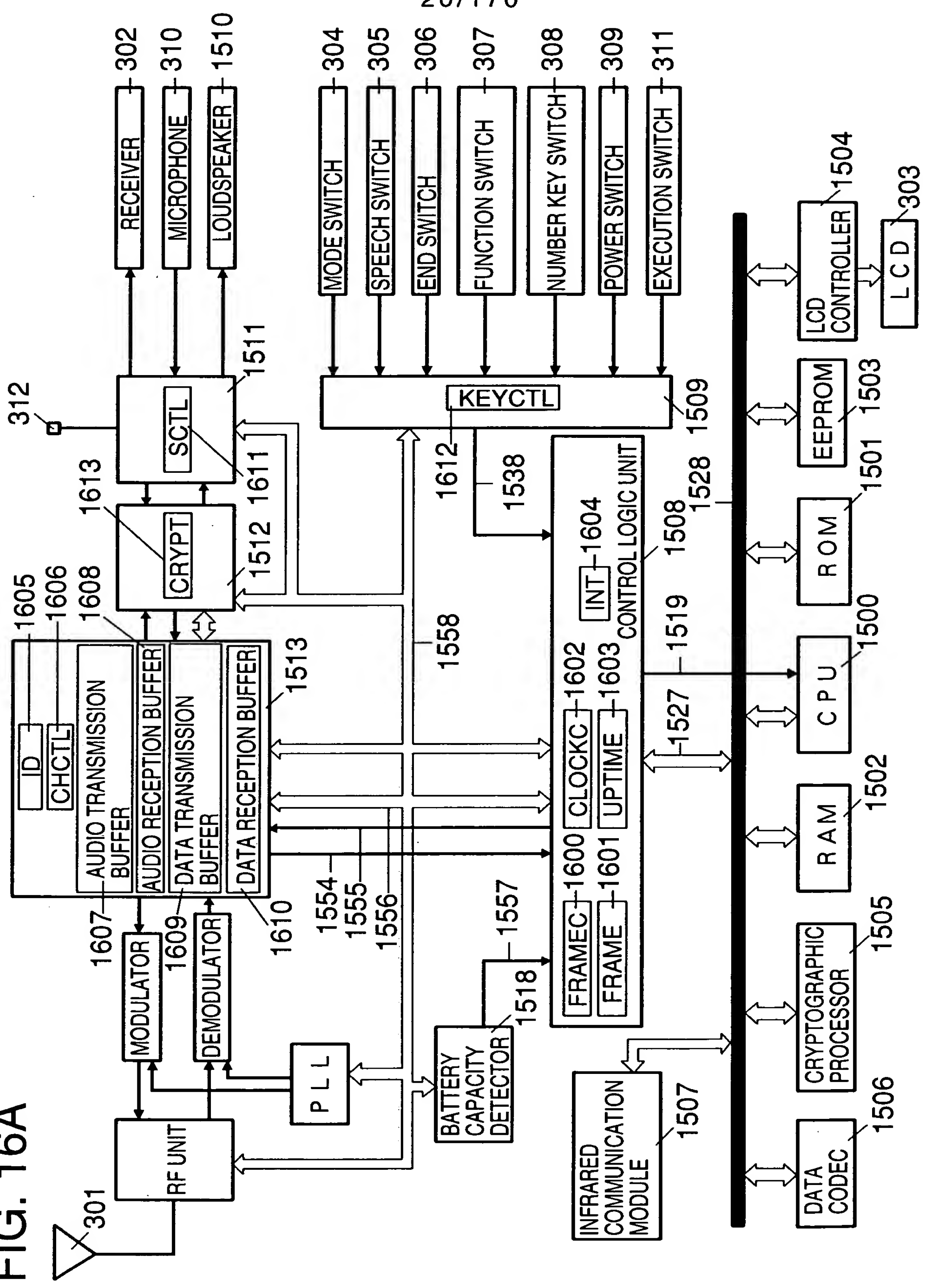


FIG. 16A





[illegible]

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
POWER DISPLAY	WIRELESS TELEPHONE DISPLAY	FRAME INTERUPT	CALL RECEPTION INTERUPT	DATA RECEPTION INTERUPT	UPDATE INTERUPT	BATTERY INTERUPT	KEY INTERUPT				"END"	"SPEECH"	"MODE"	"EXECUTE"	"POWER"
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
"F 4"	"F 3"	"F 2"	"F 1"	"#"	"*"	"9"	"8"	"7"	"6"	"5"	"4"	"3"	"2"	"1"	"0"

FIG. 17

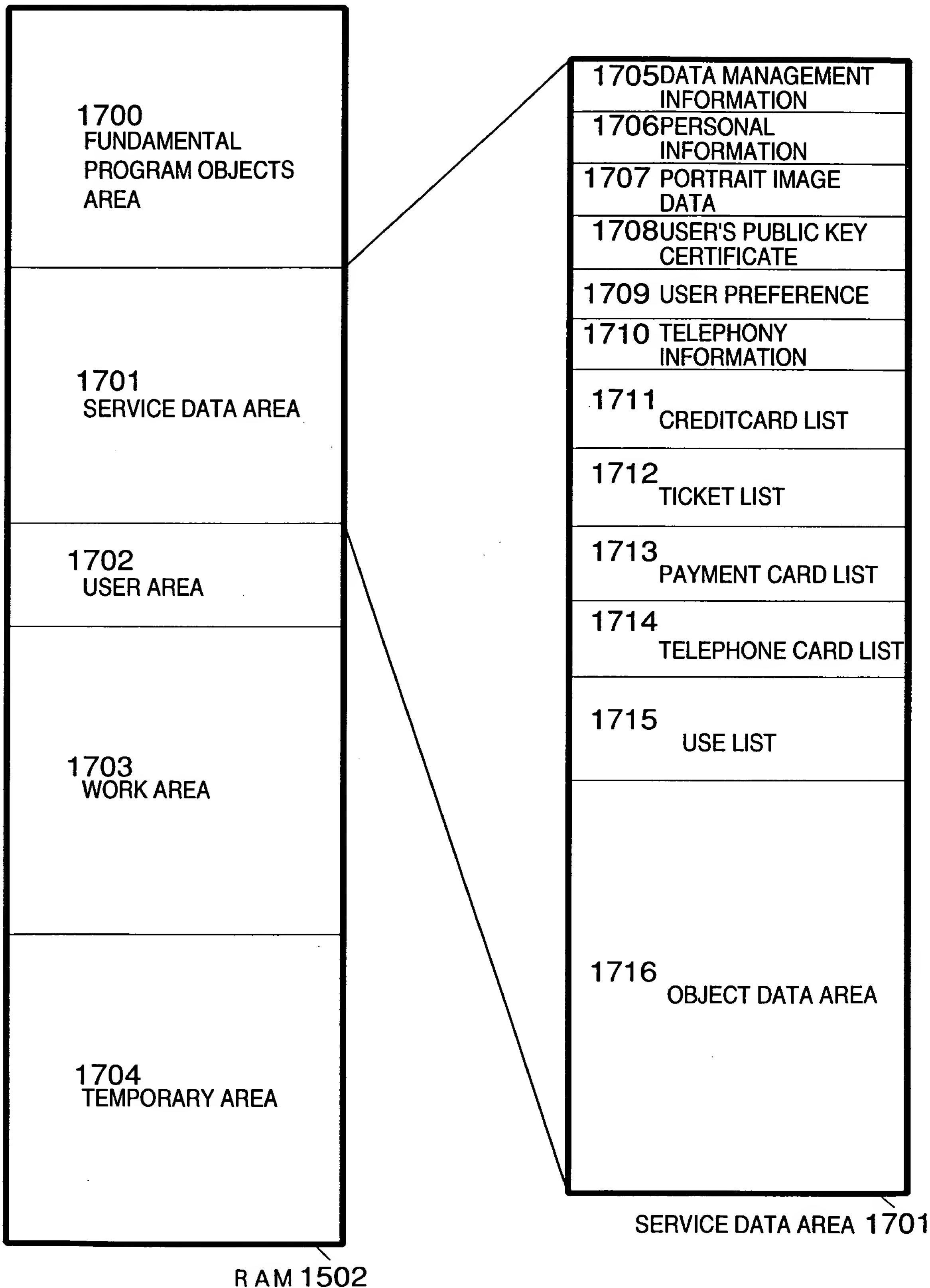


FIG. 18

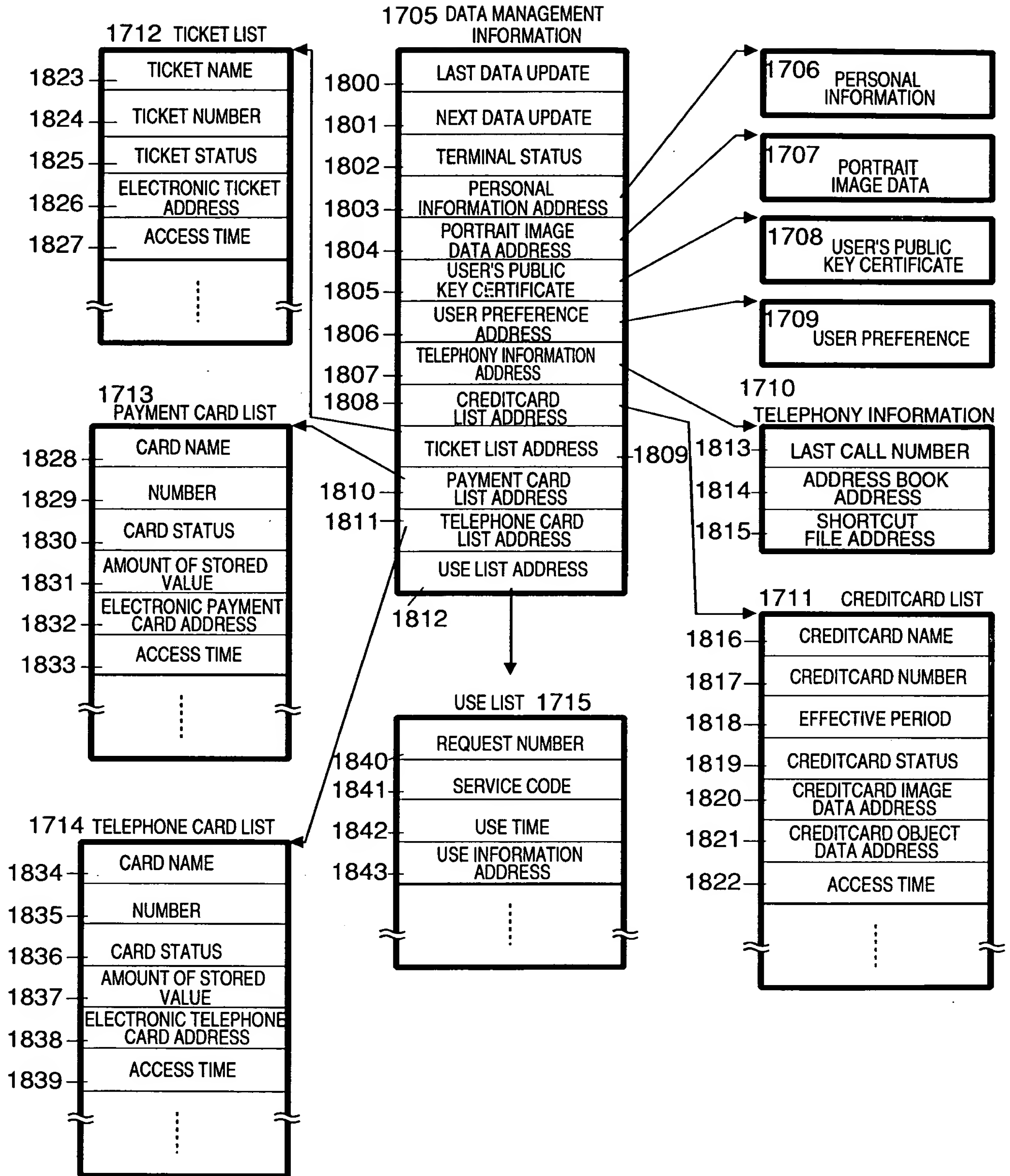


FIG. 19

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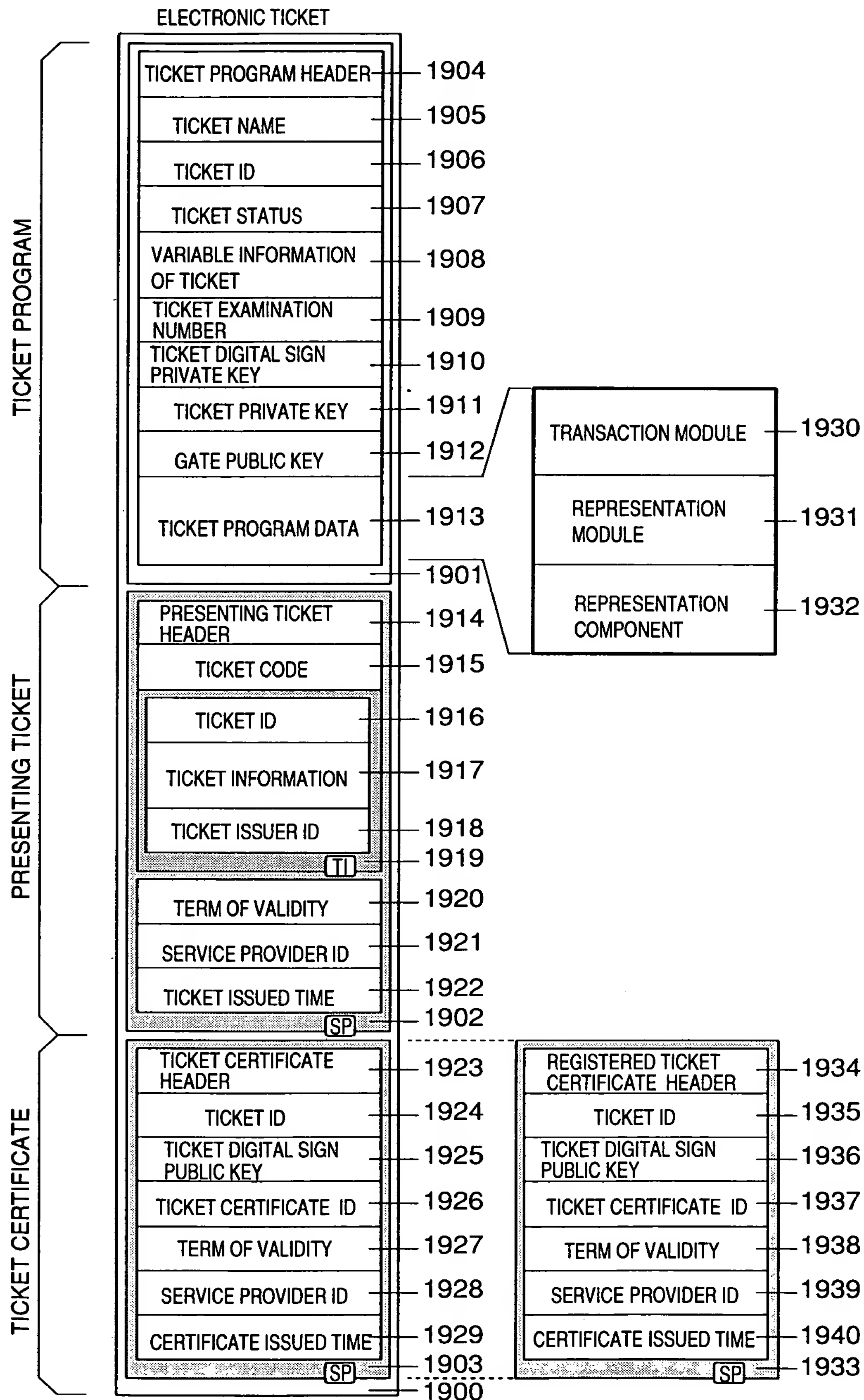


FIG. 20

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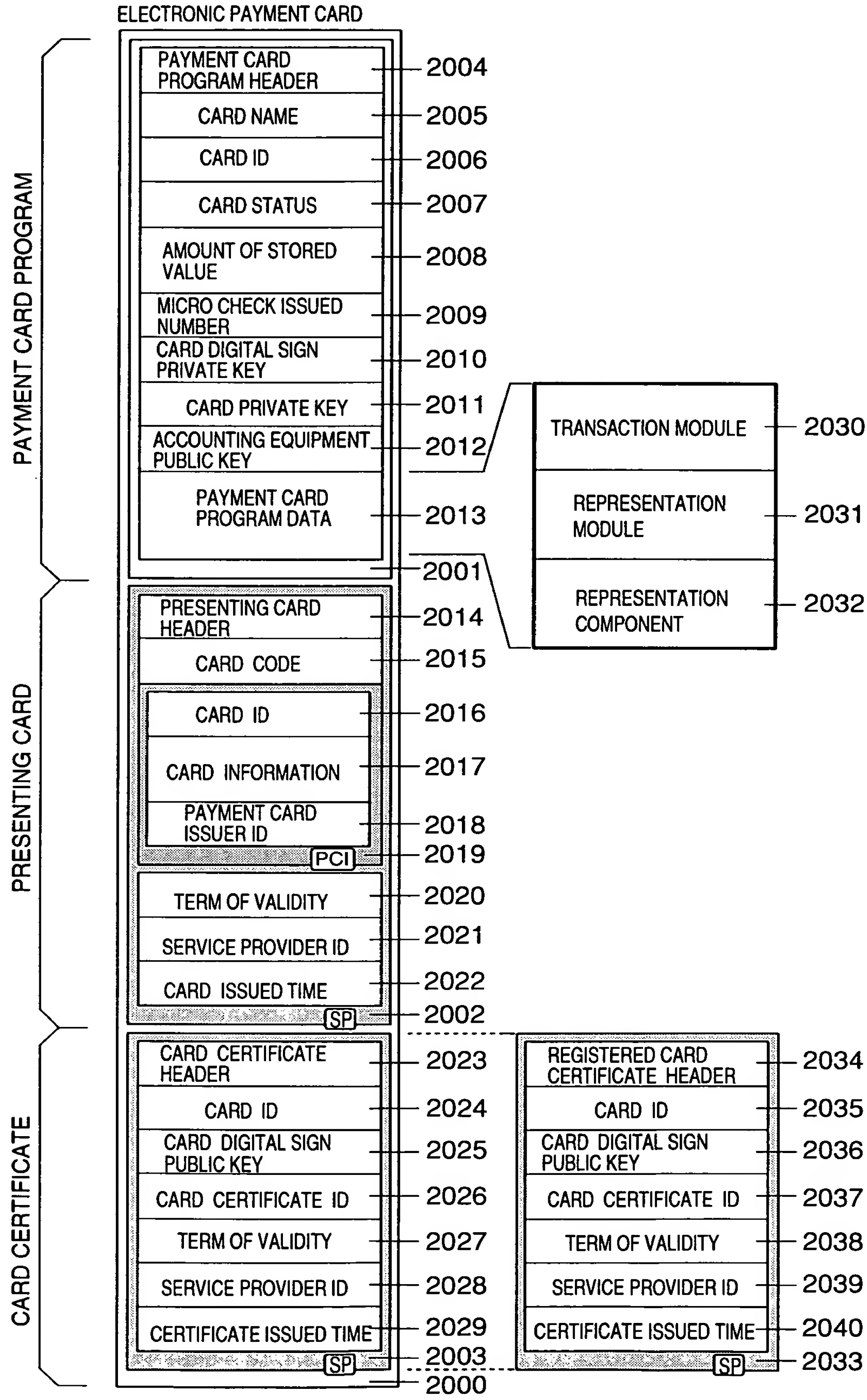
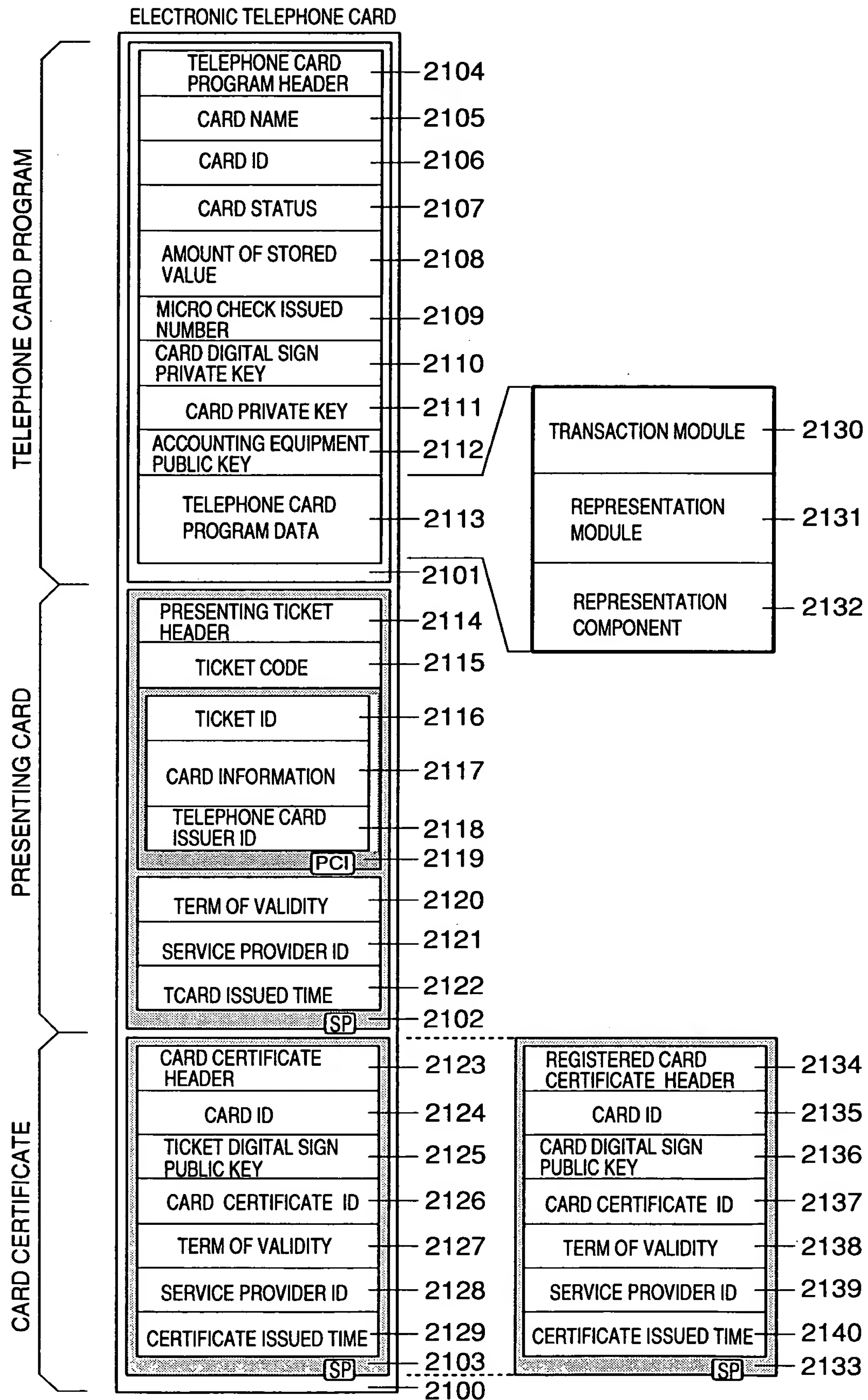
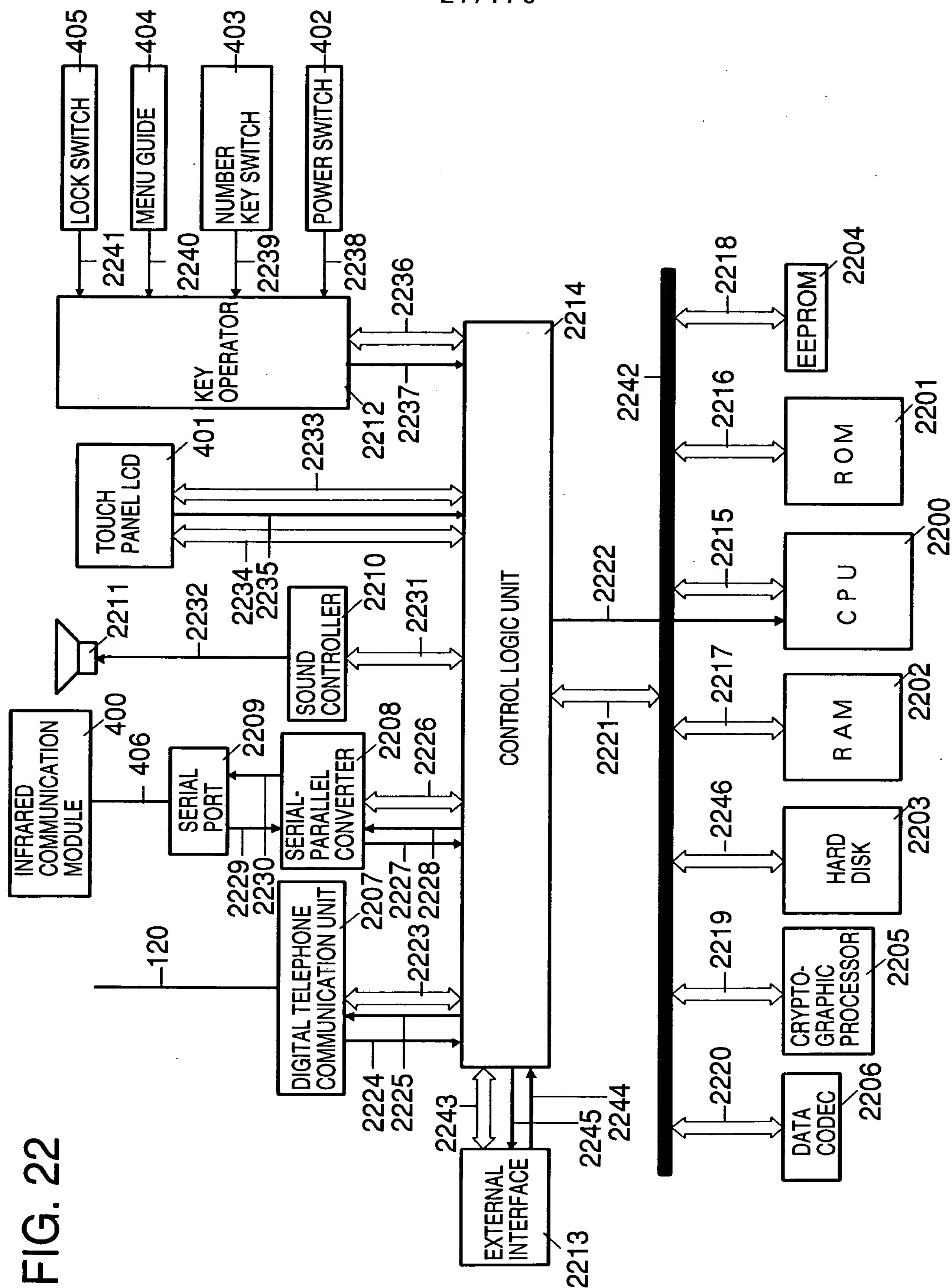
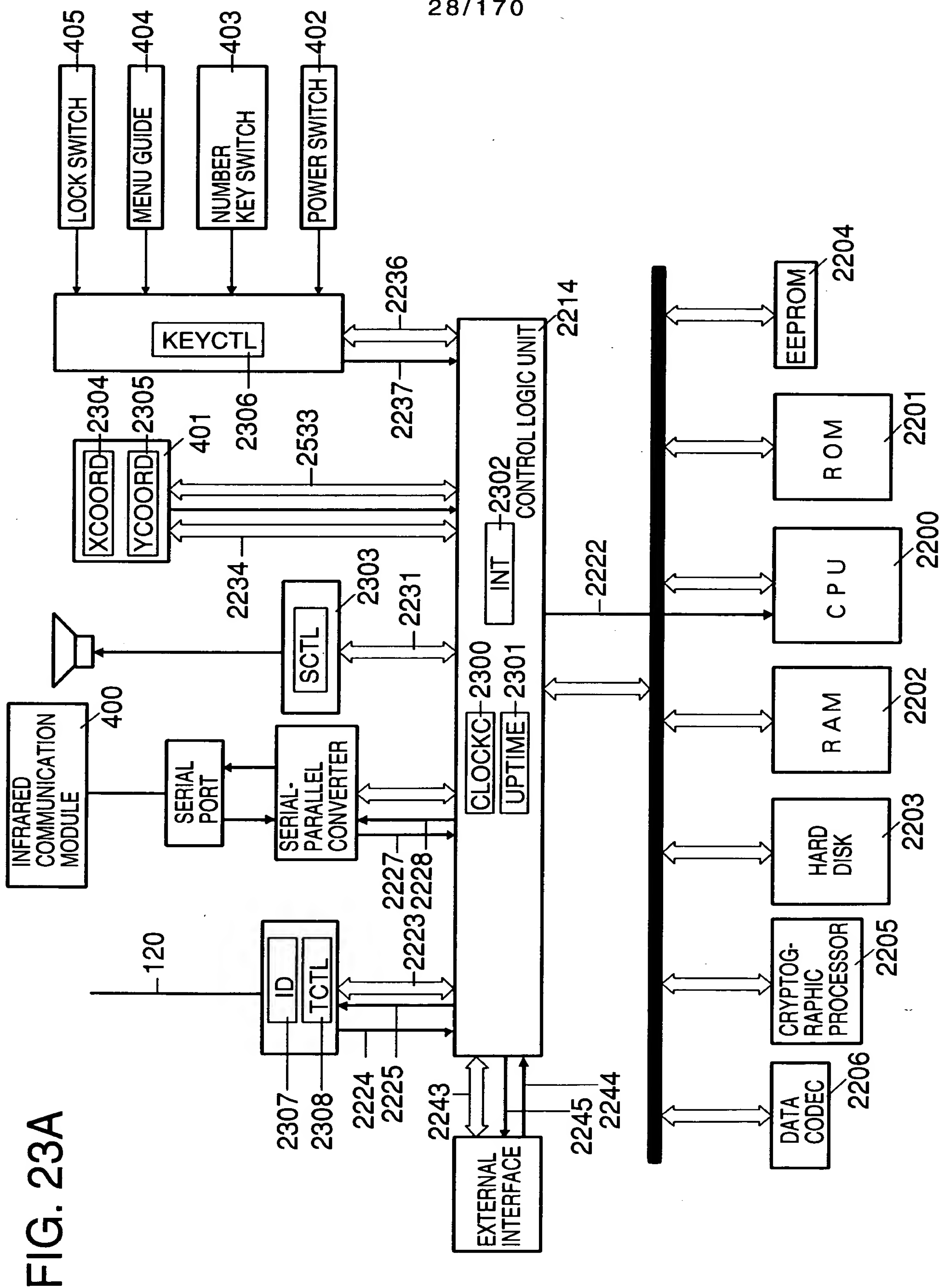


FIG. 21

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[illegible]





# IN

# IN

FIG. 24

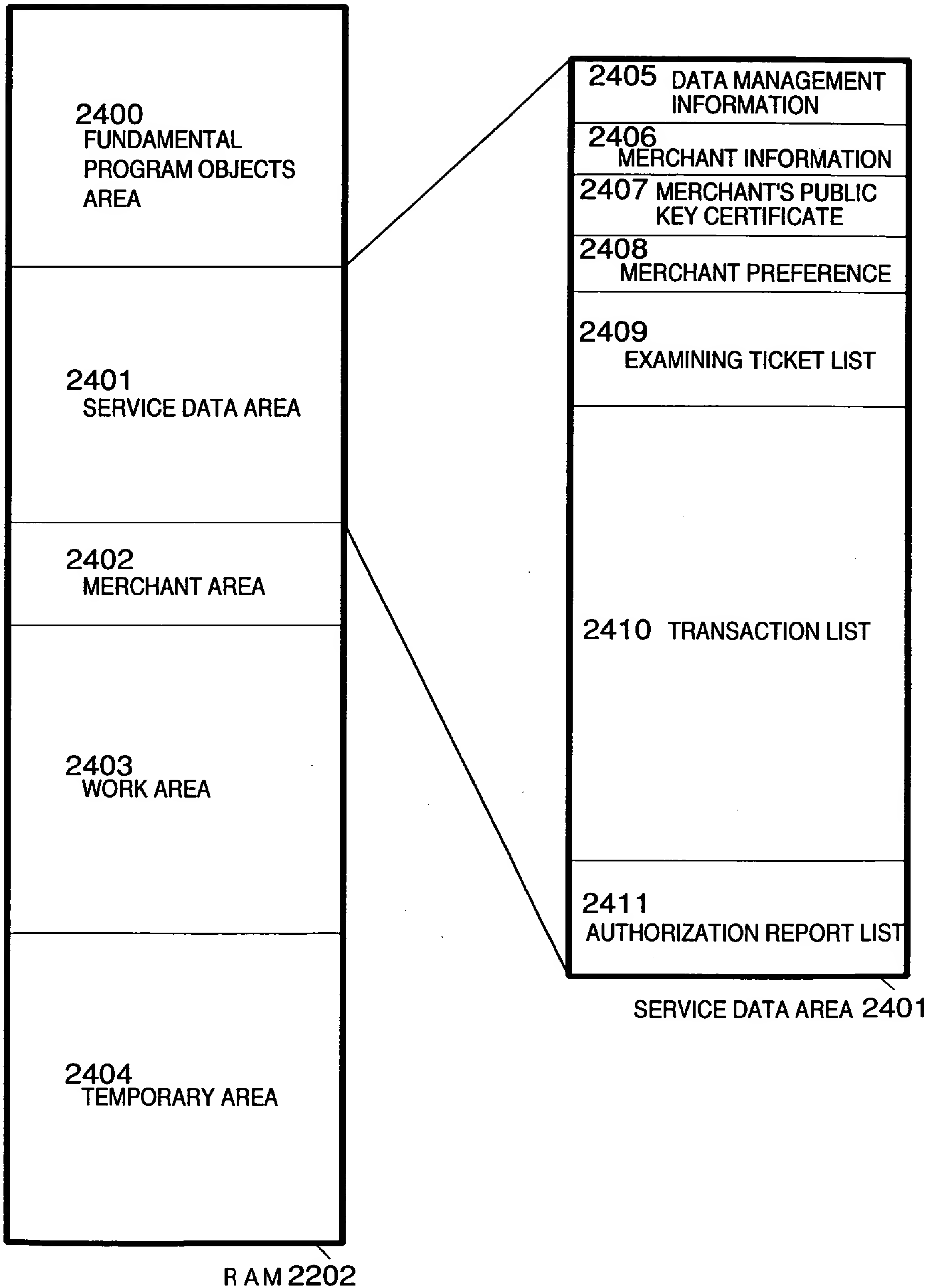


FIG. 25

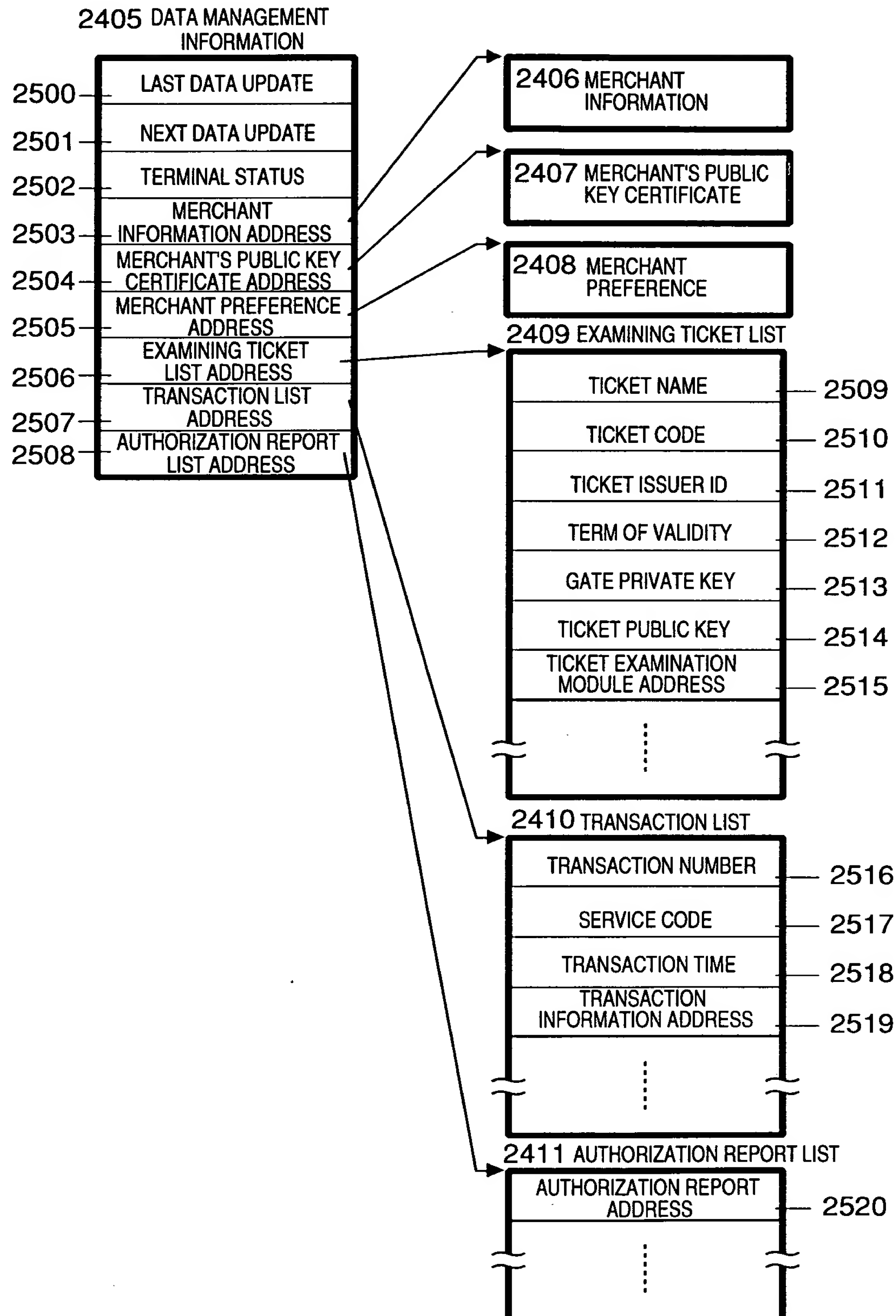


FIG. 26

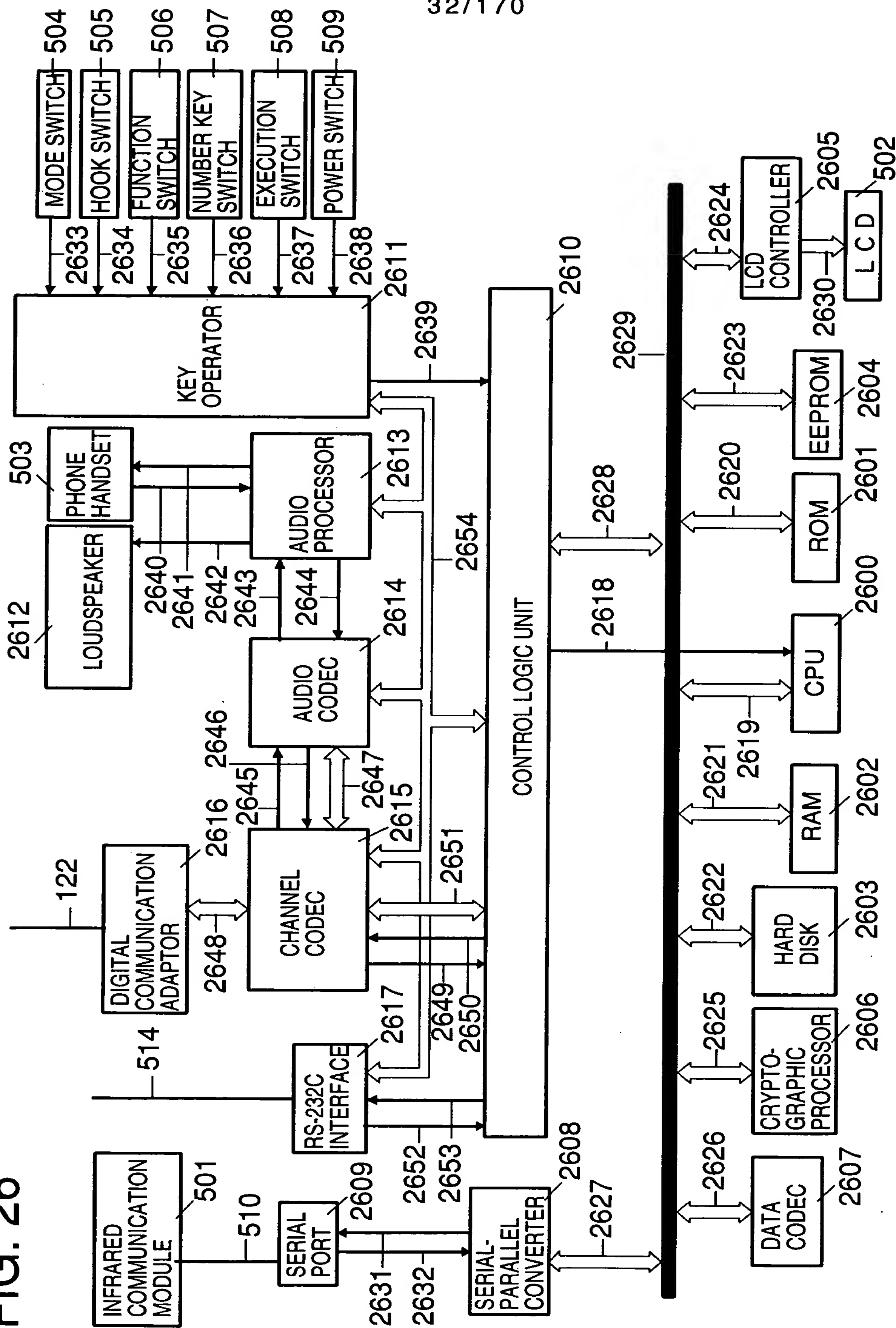
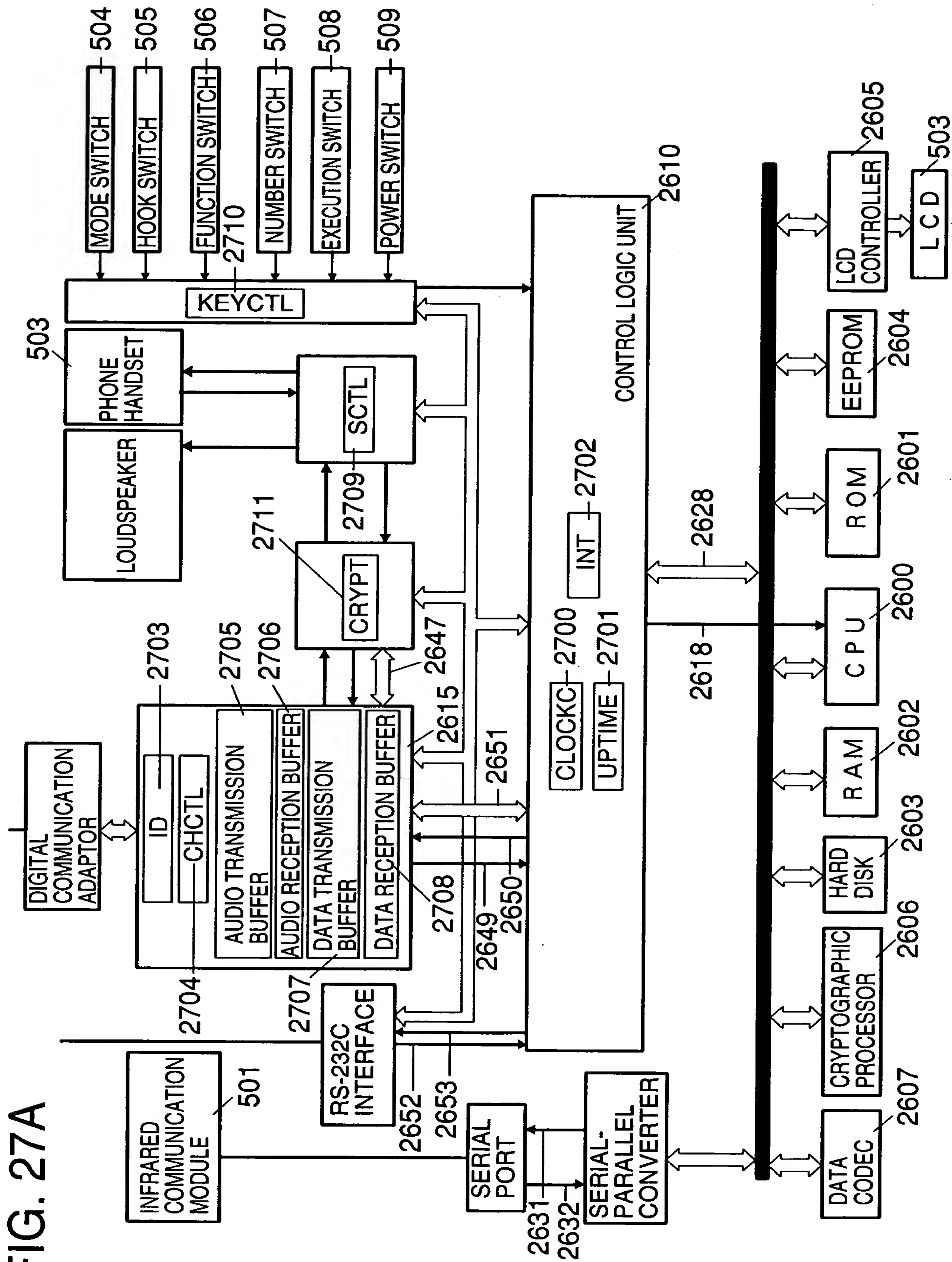


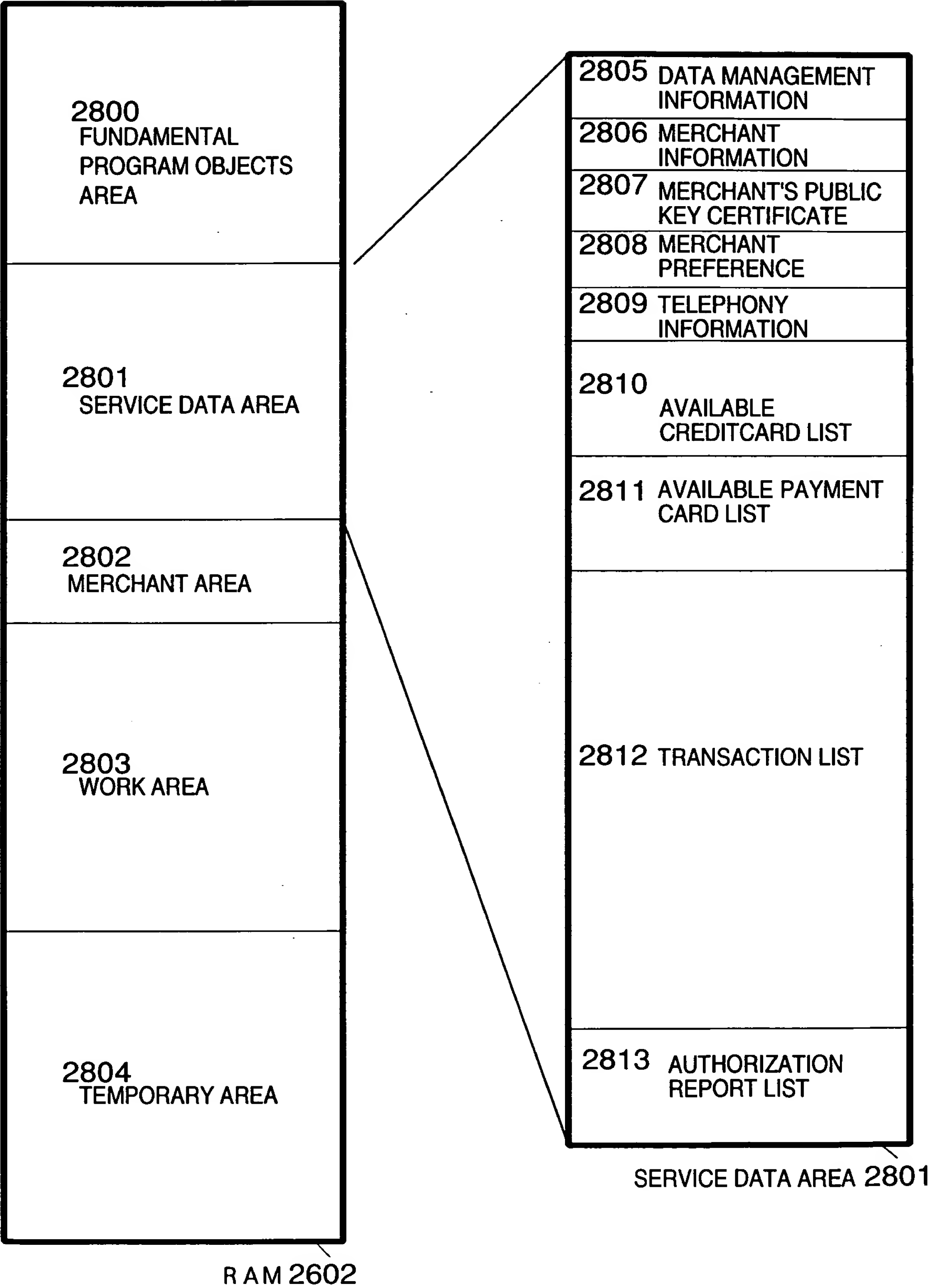
FIG. 27A



**FIG. 27B**

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
POWER DISPLAY	TELEPHONE DISPLAY		CALL RECEPTION INTER interrupt	DATA RECEPTION INTER interrupt	UPDATE INTER interrupt	EXTERNAL IF INTER interrupt	KEY INTER interrupt				"HOOK"		"MODE"	"EXECUTE"	"POWER"
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
"F 4"	"F 3"	"F 2"	"F 1"	"#"	"*"	"9"	"8"	"7"	"6"	"5"	"4"	"3"	"2"	"1"	"0"

FIG. 28



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FIG. 29

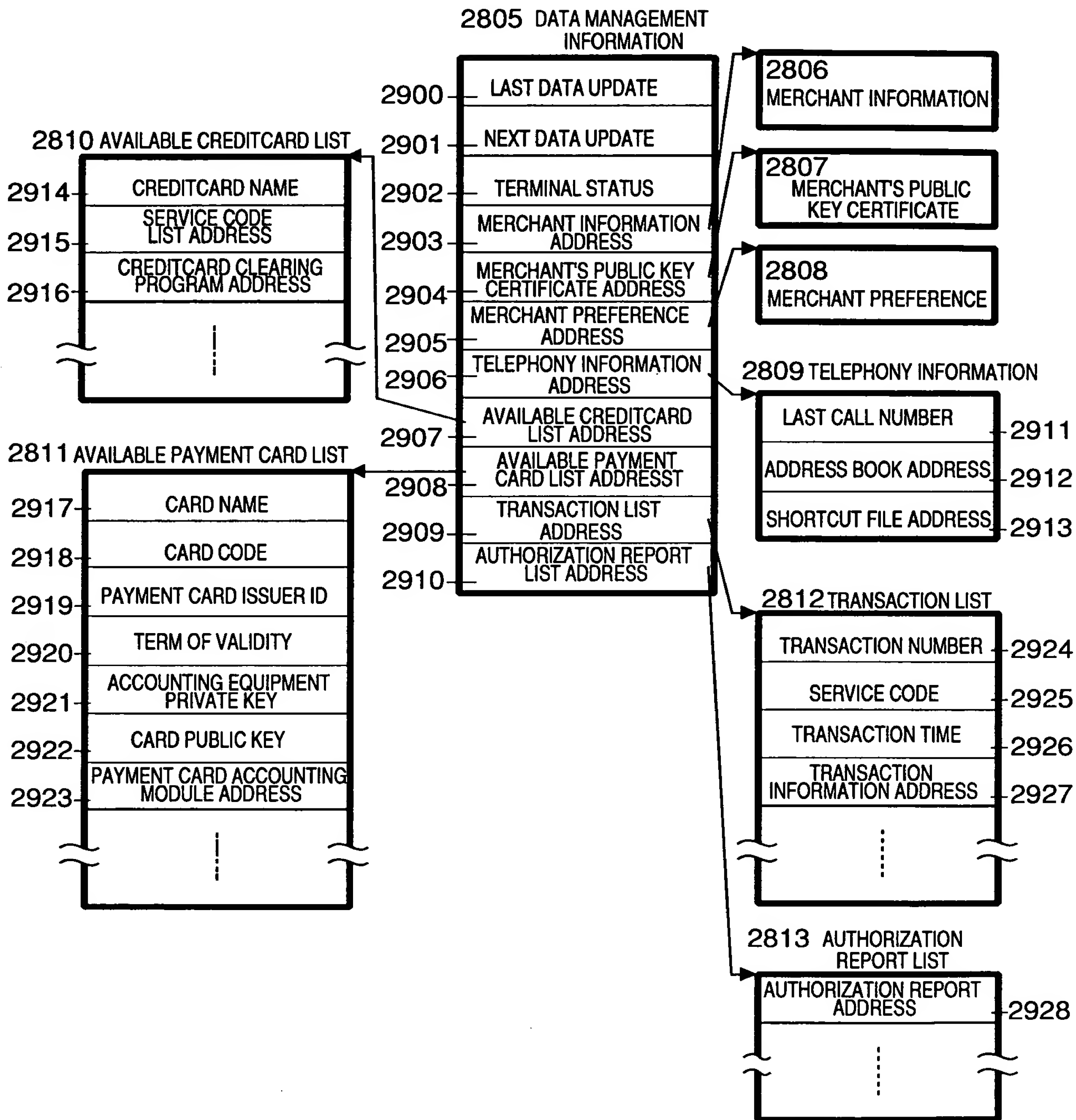
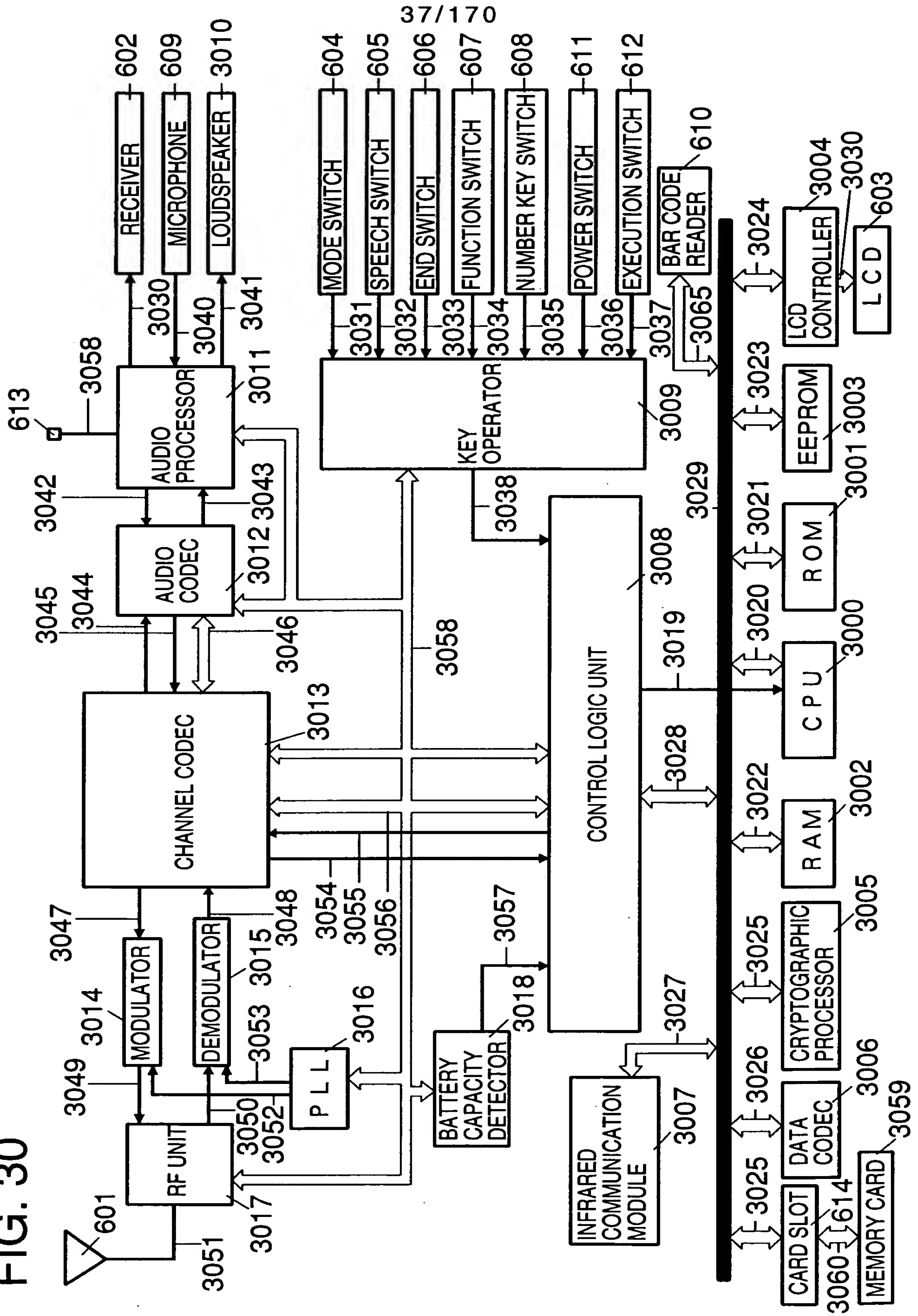




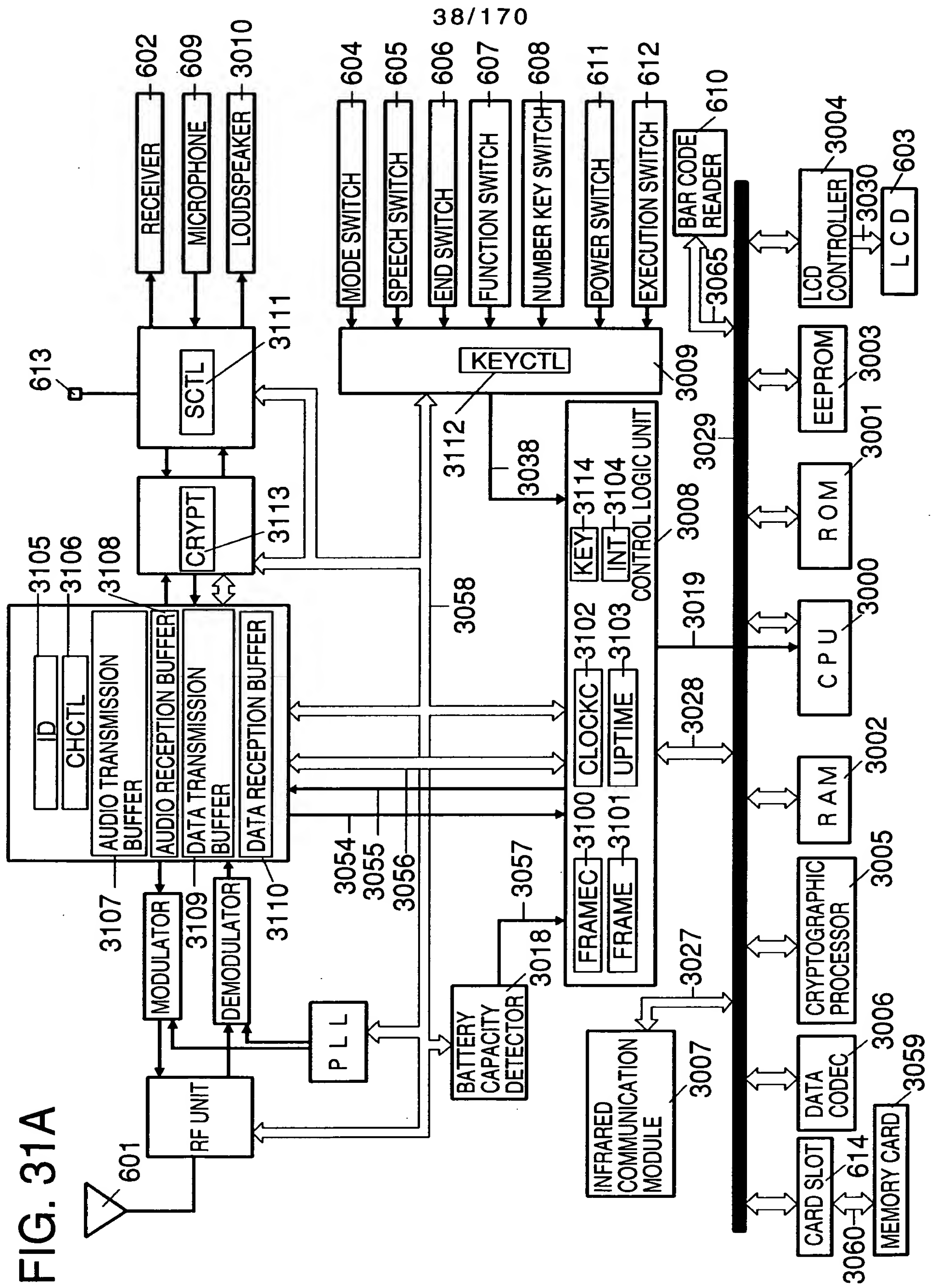
FIG. 30



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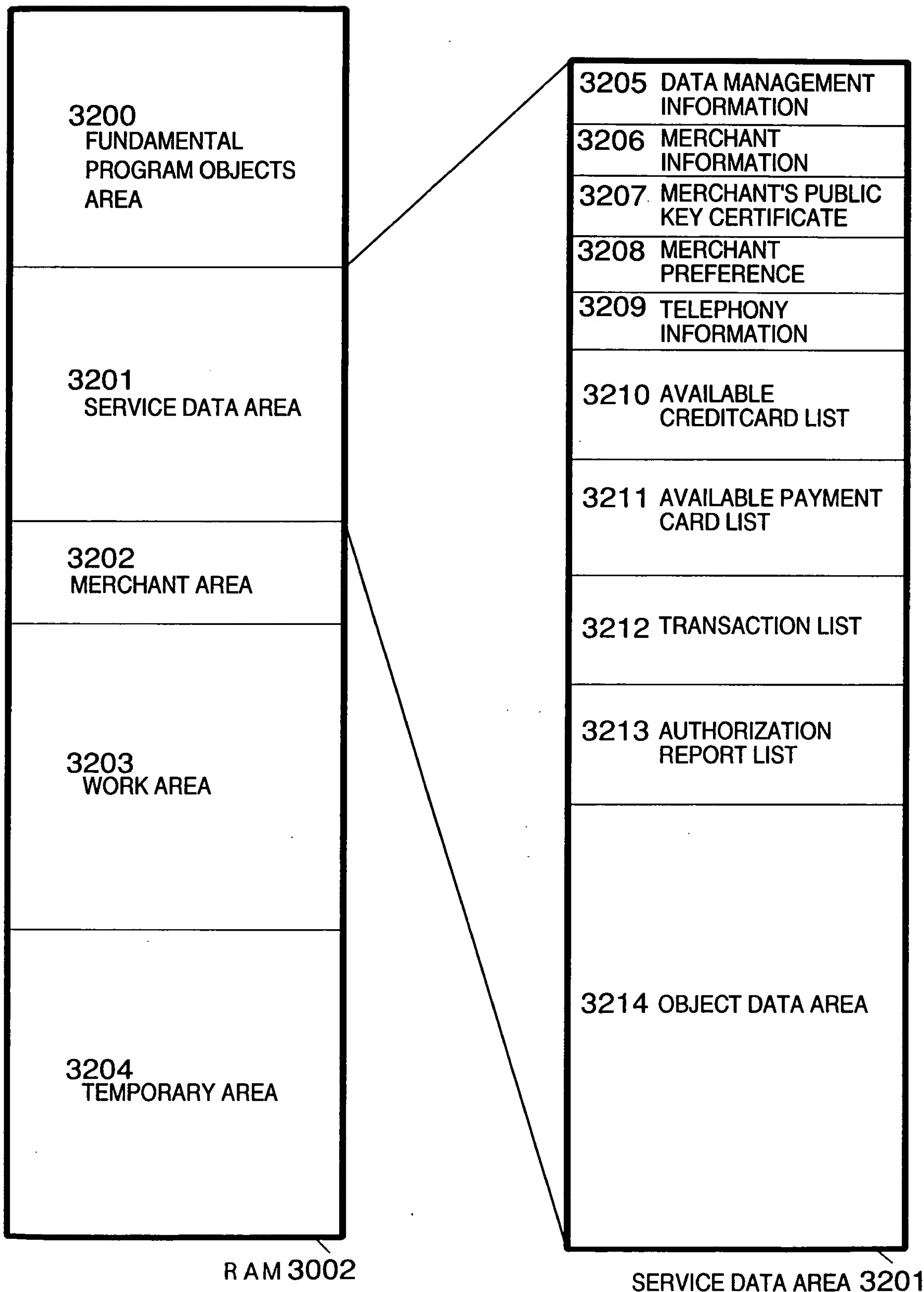
FIG. 31A





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FIG. 32



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FIG. 33

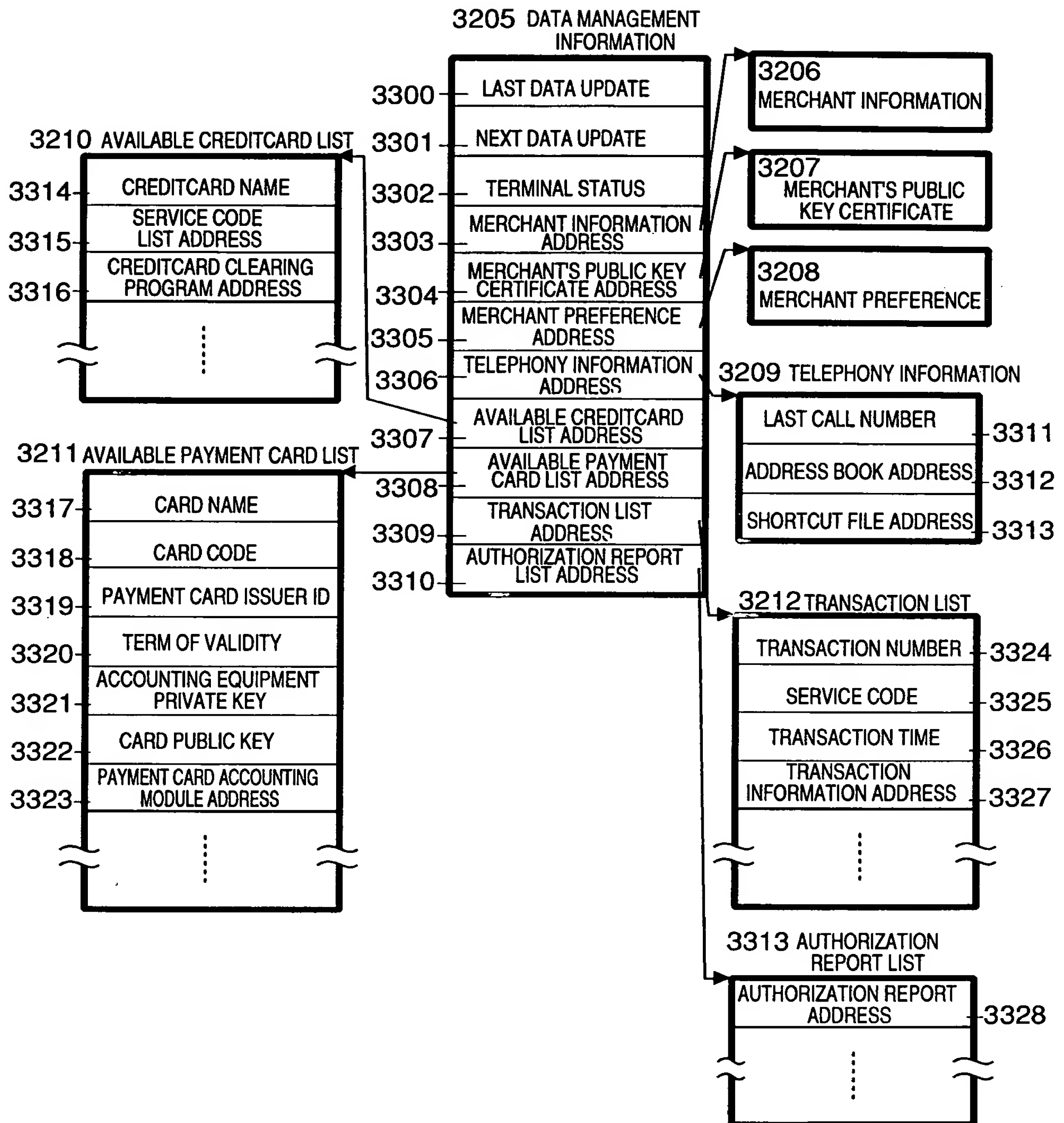
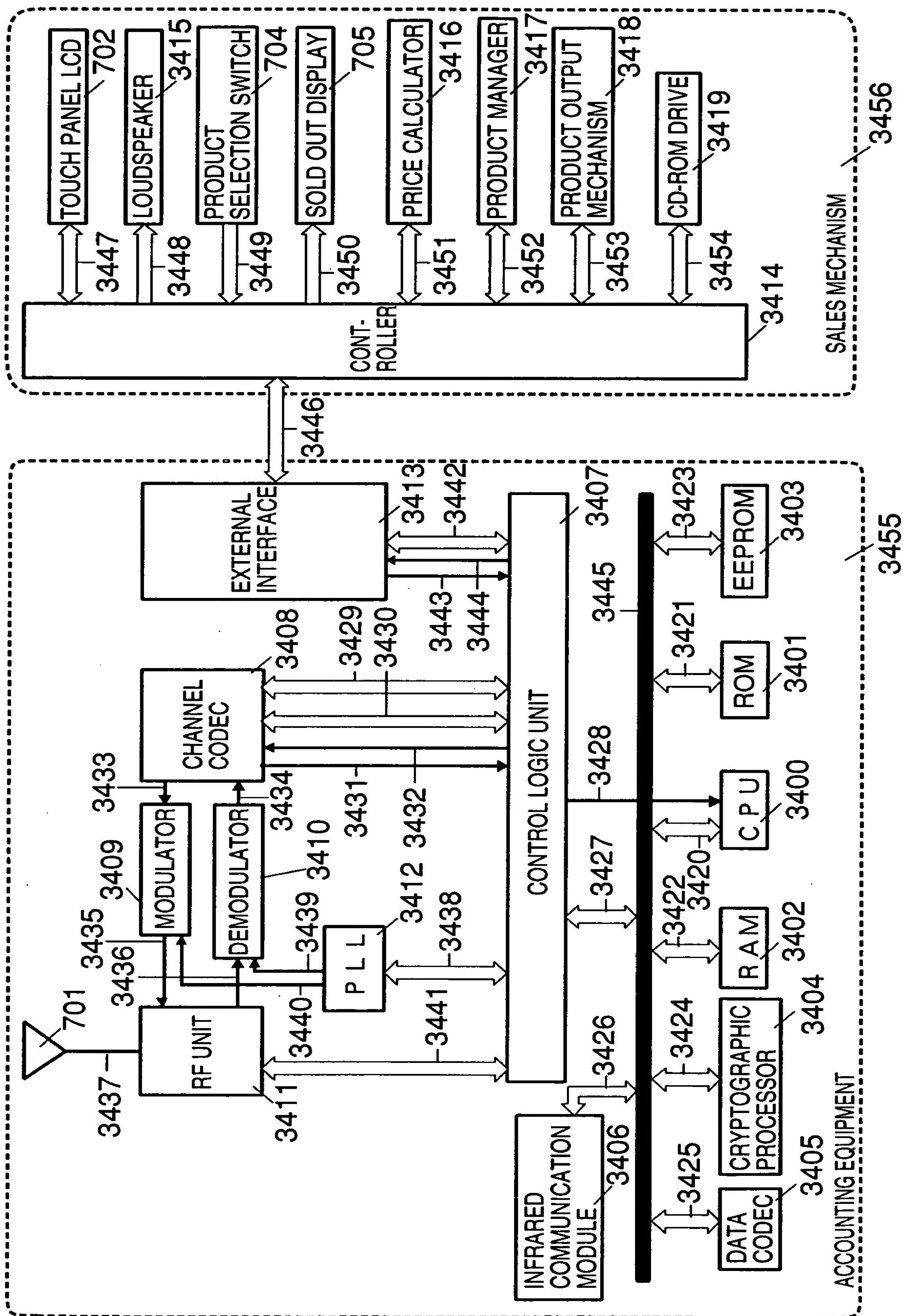


FIG. 34



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FIG. 35A

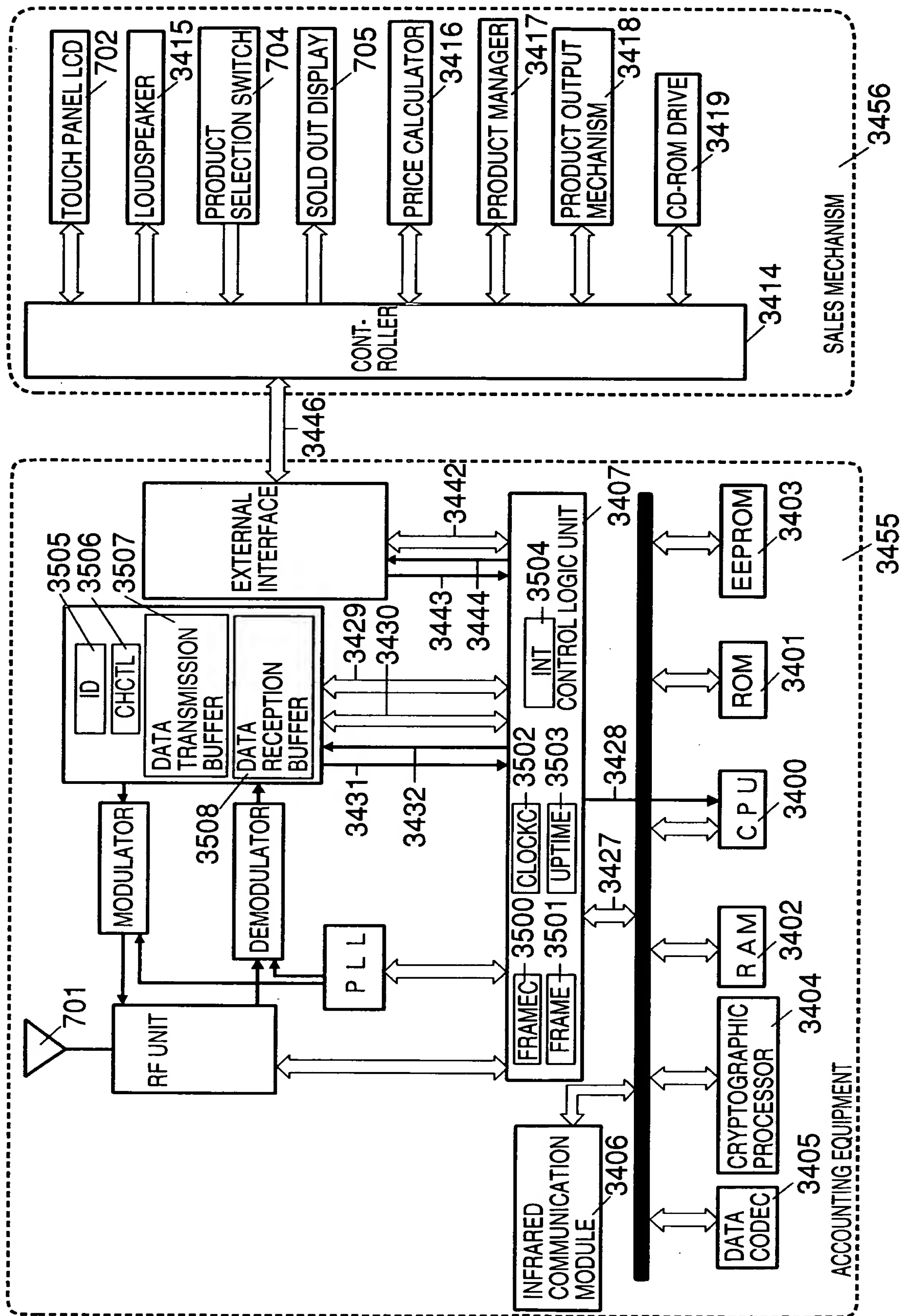






FIG. 36

FIG. 36

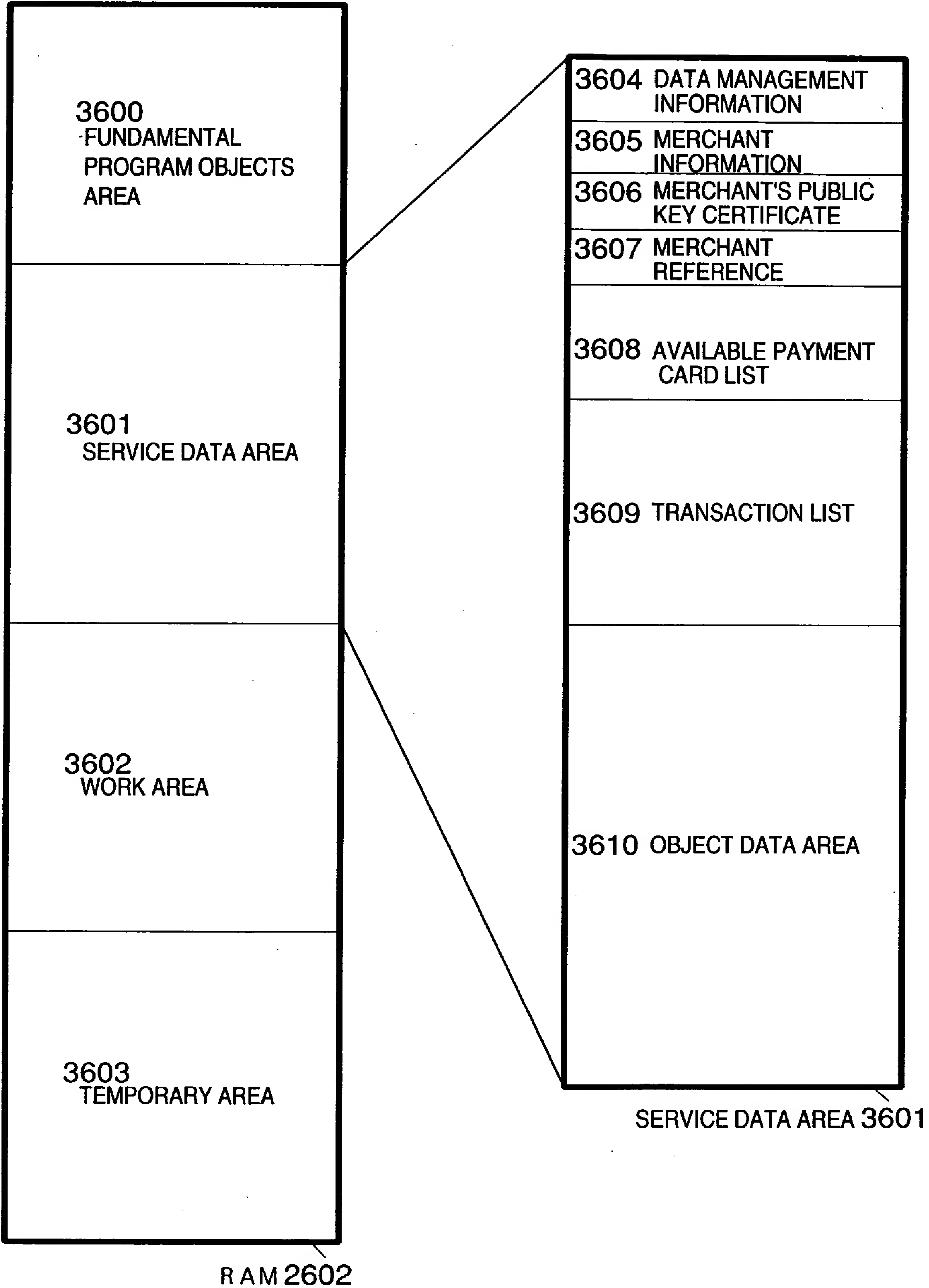
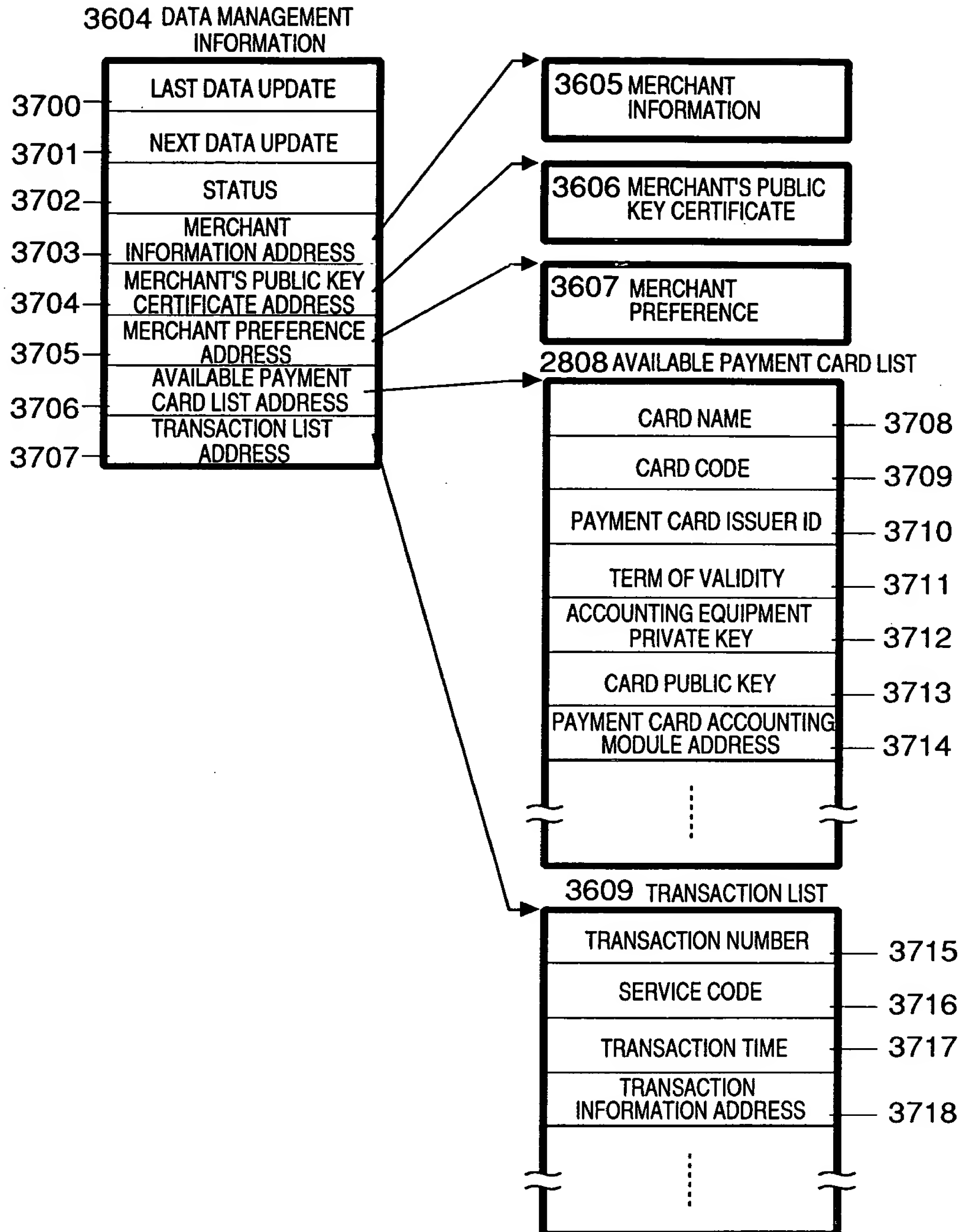


FIG. 37



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FIG. 38

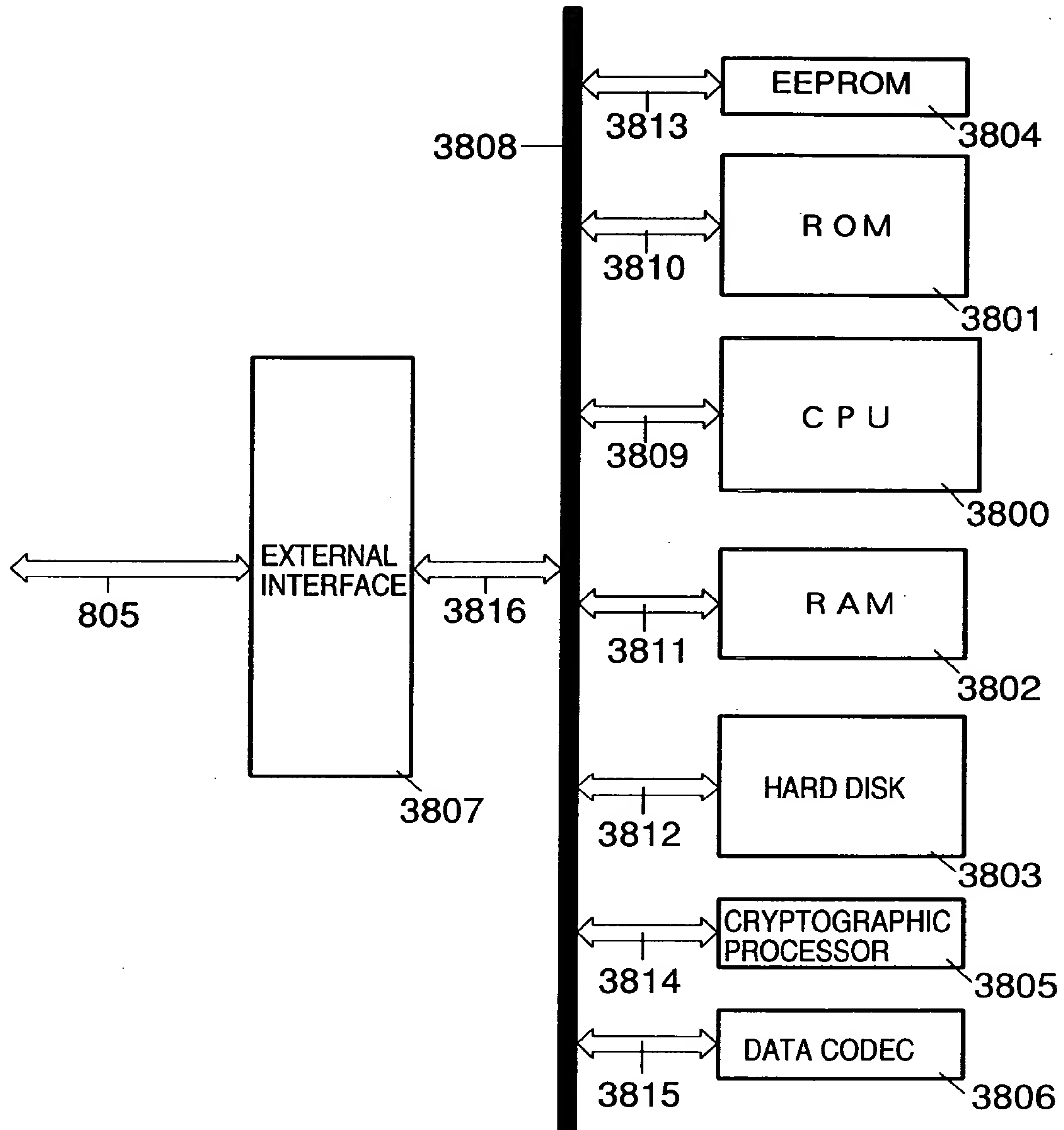


FIG. 39

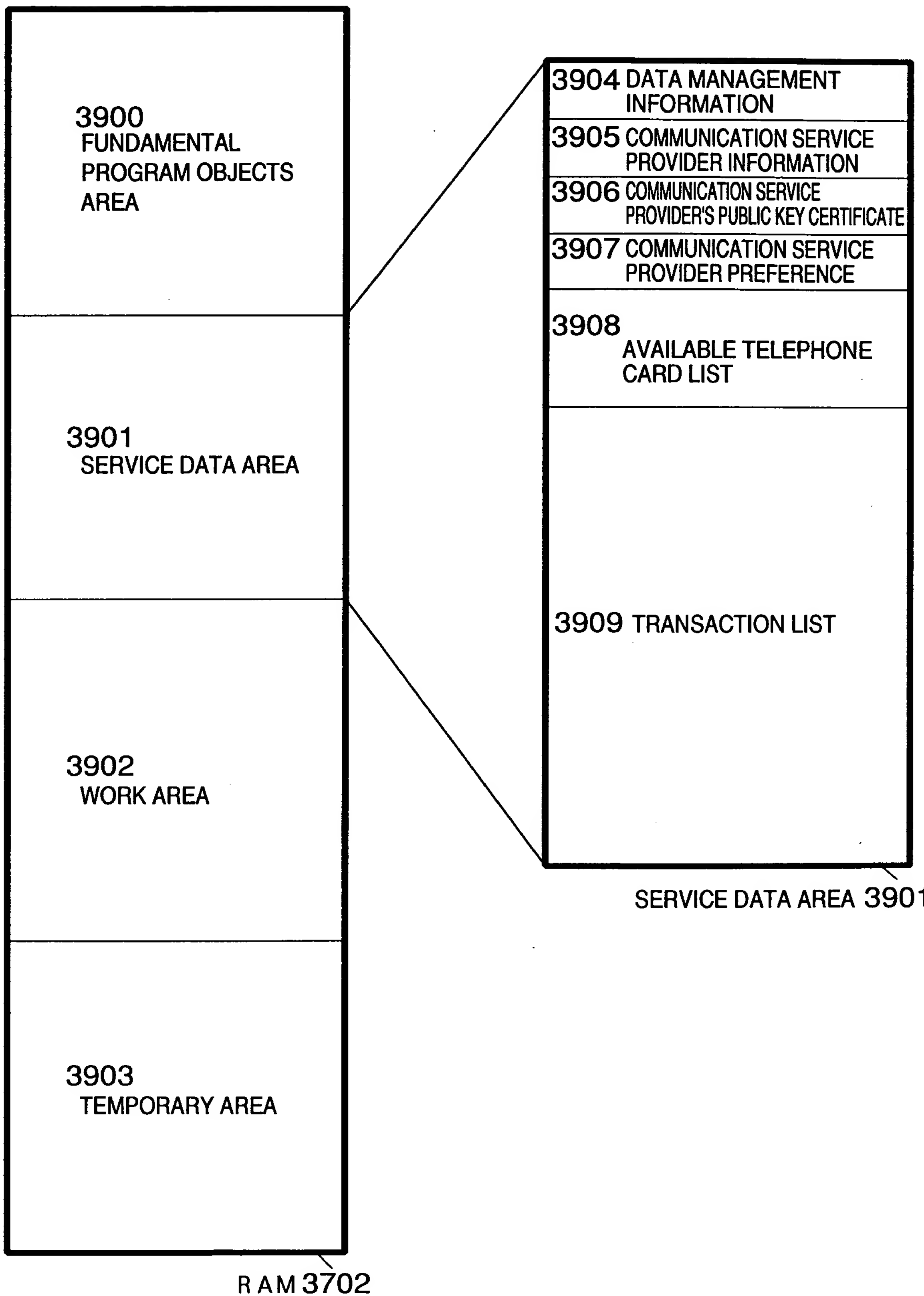


FIG. 40

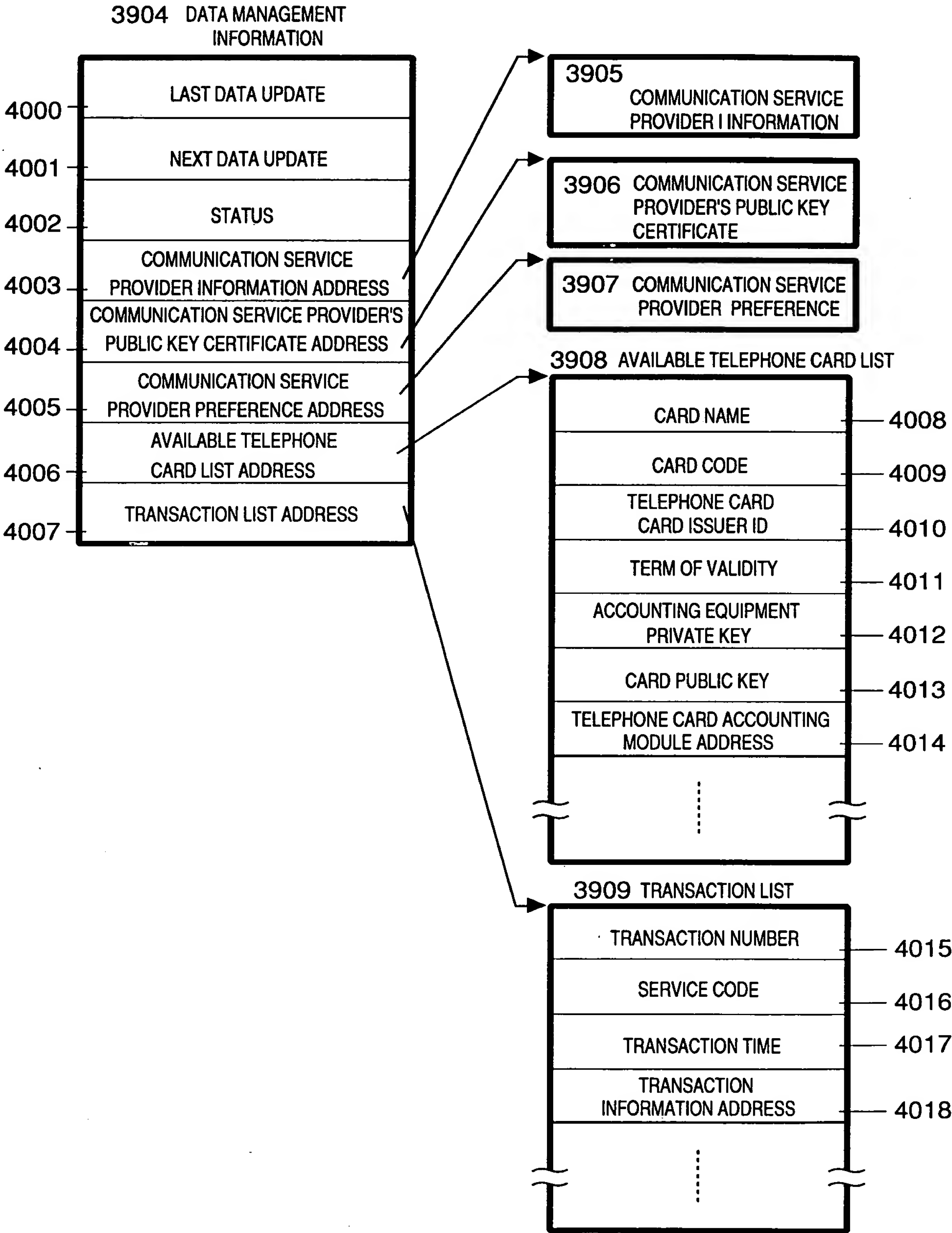


FIG. 41A

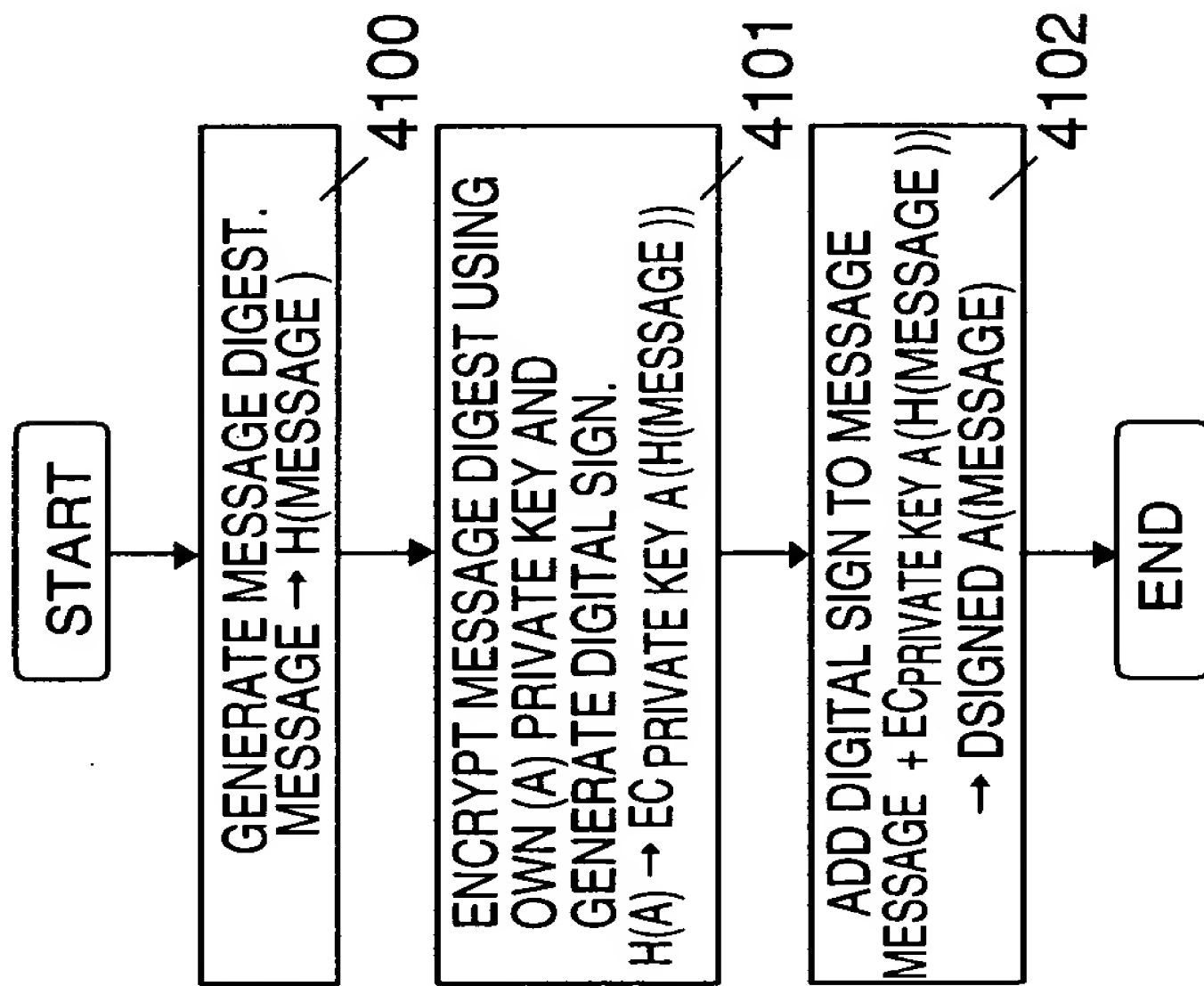
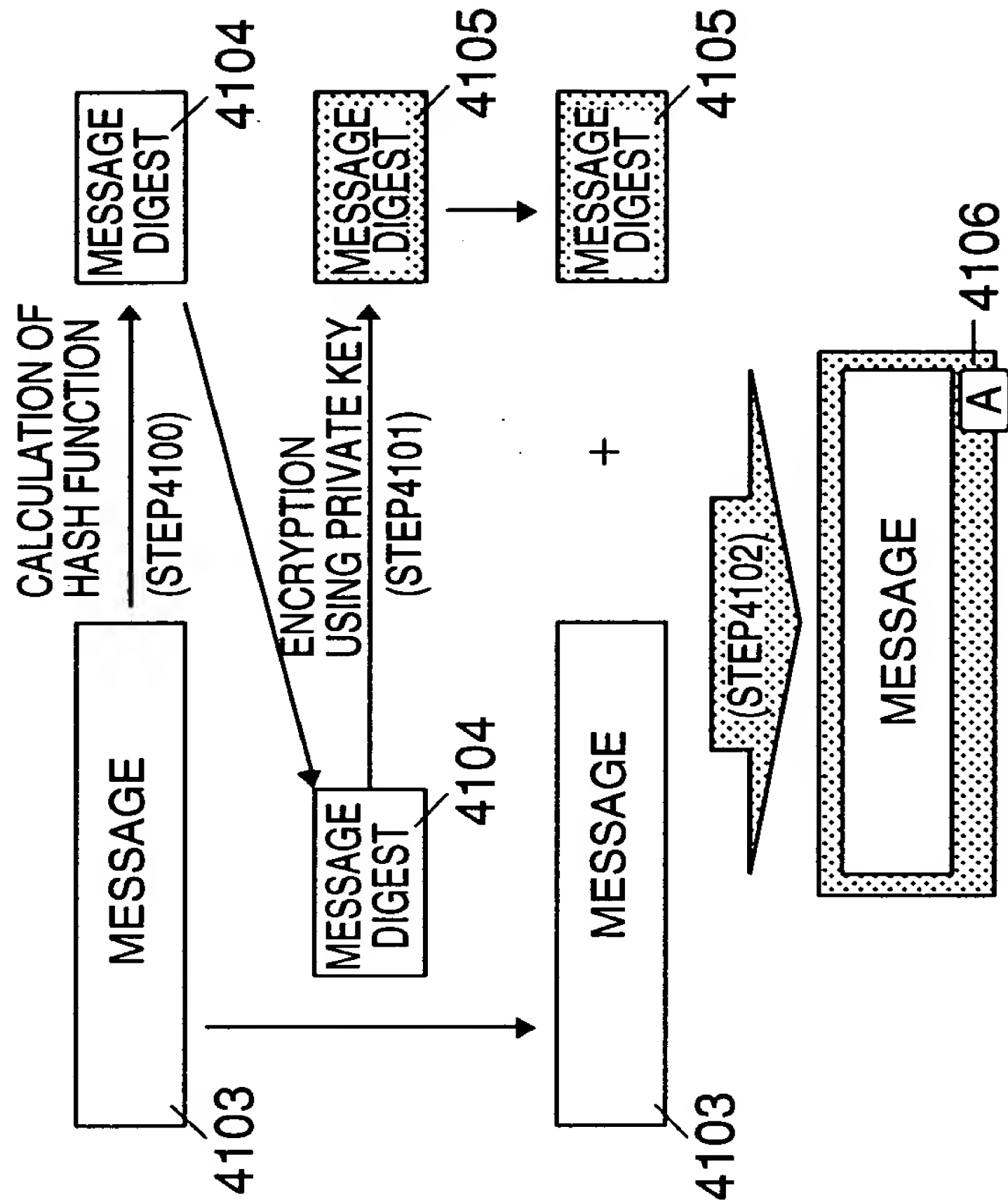


FIG. 41B



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FIG. 42A

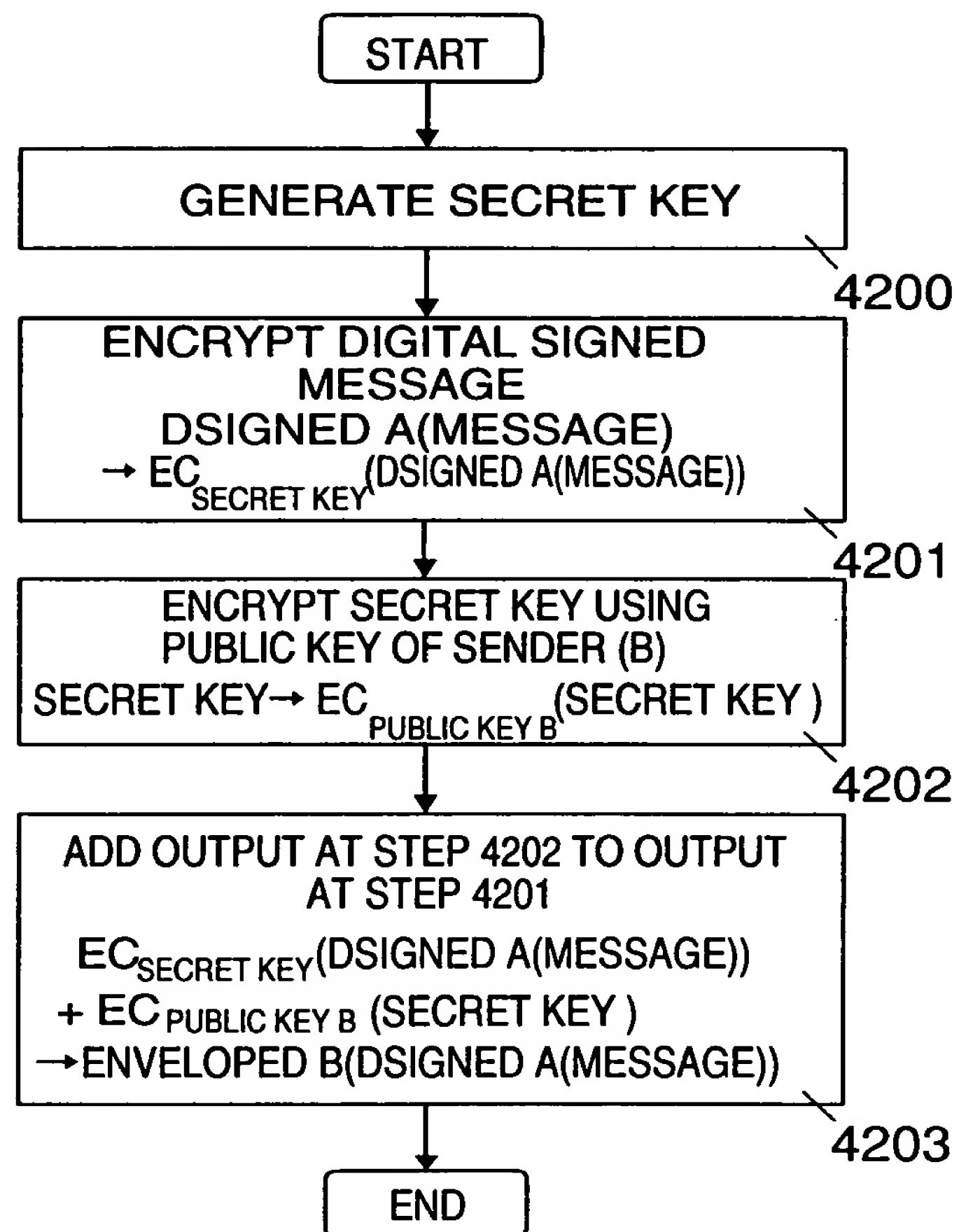
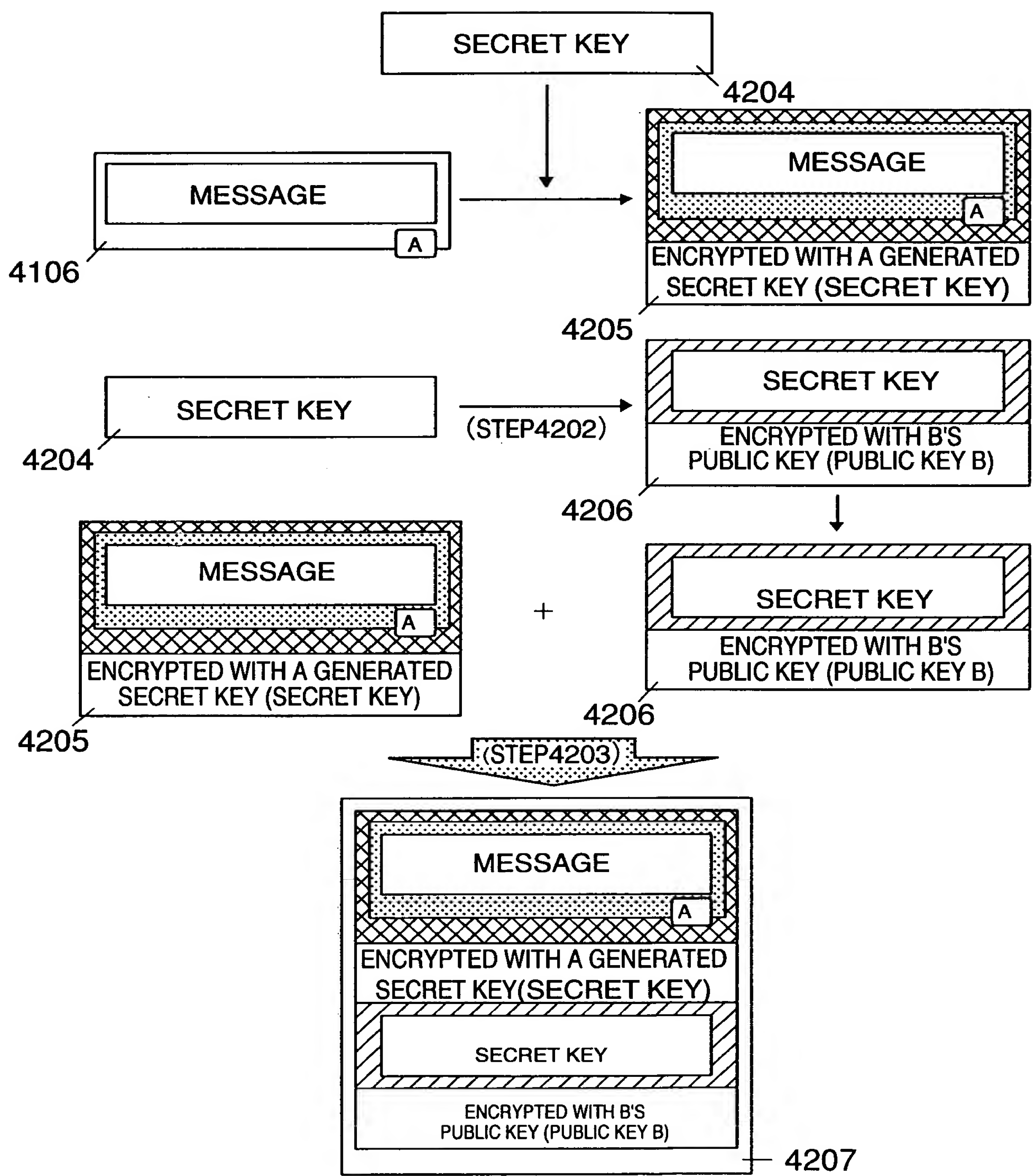


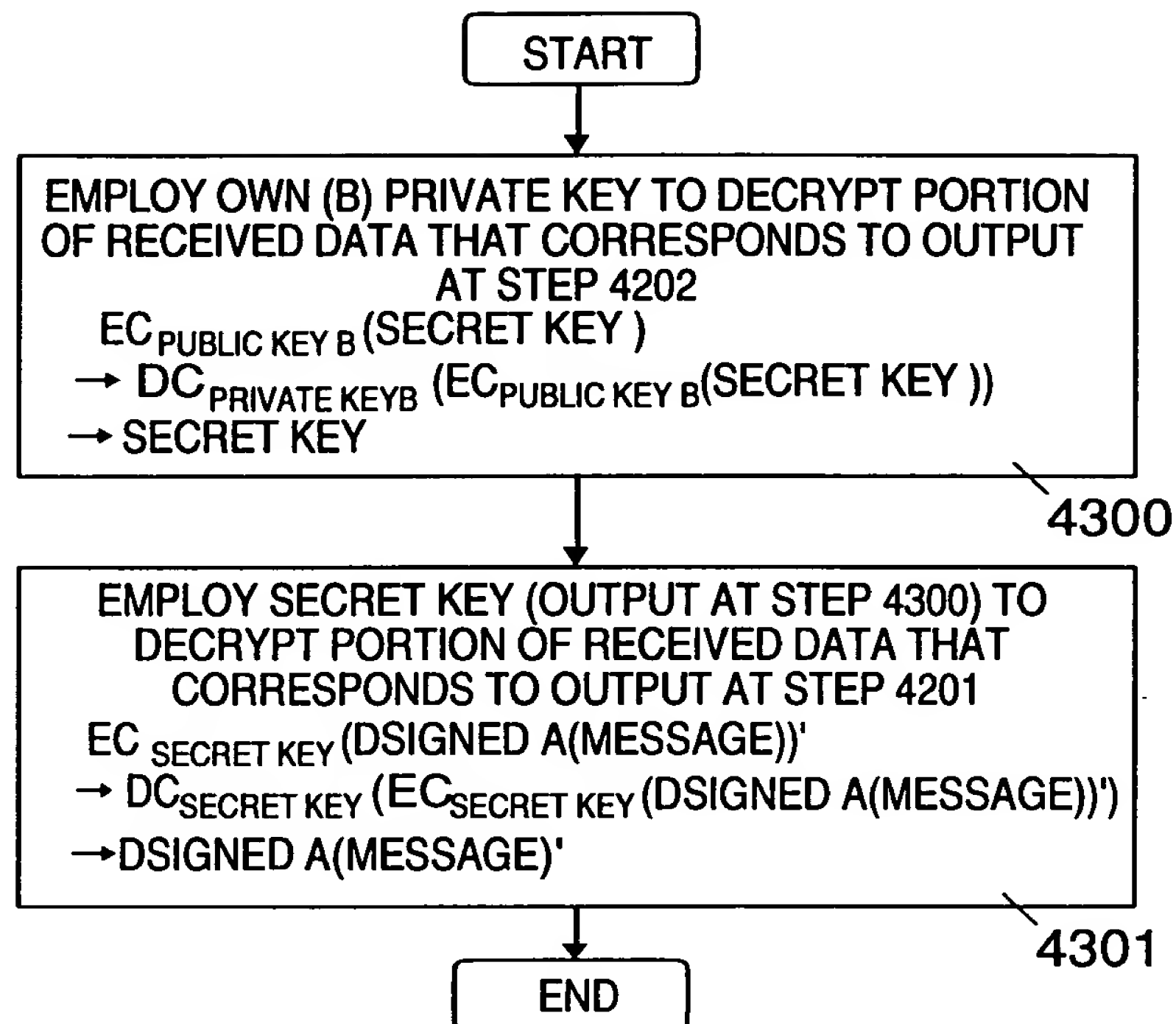
FIG. 42B





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FIG. 43A



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FIG. 43B

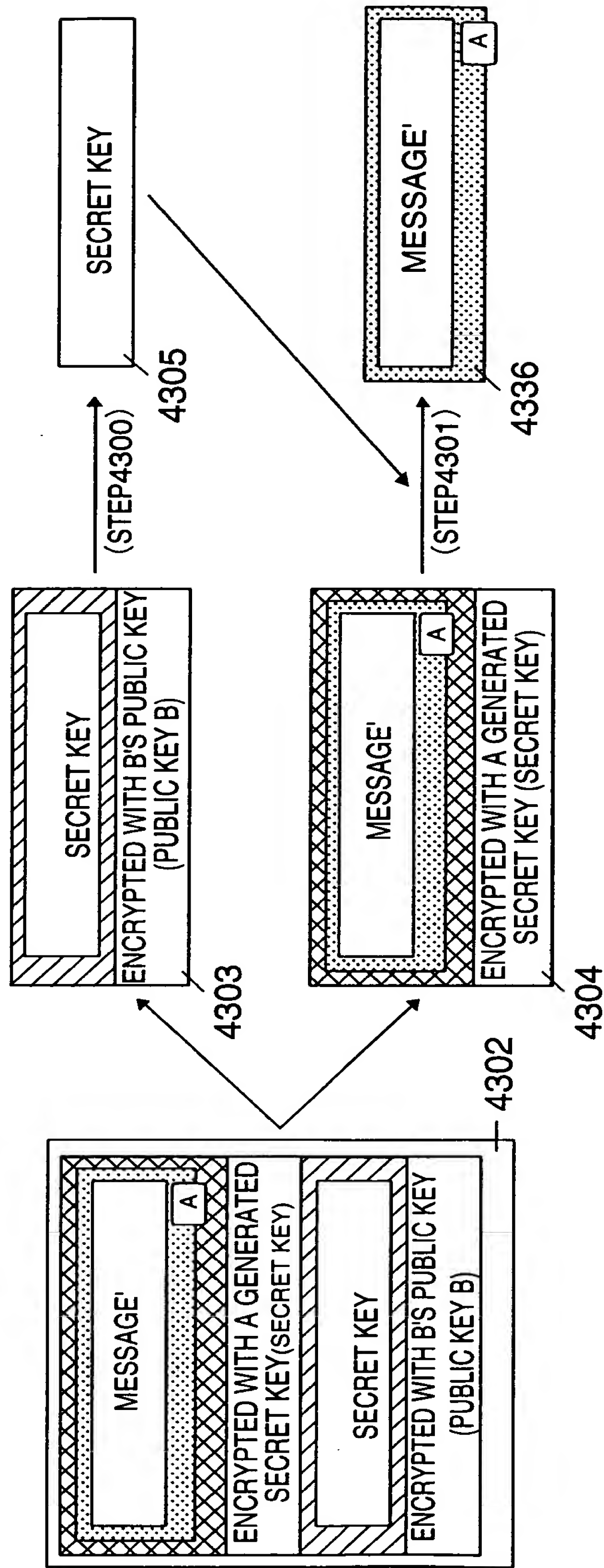
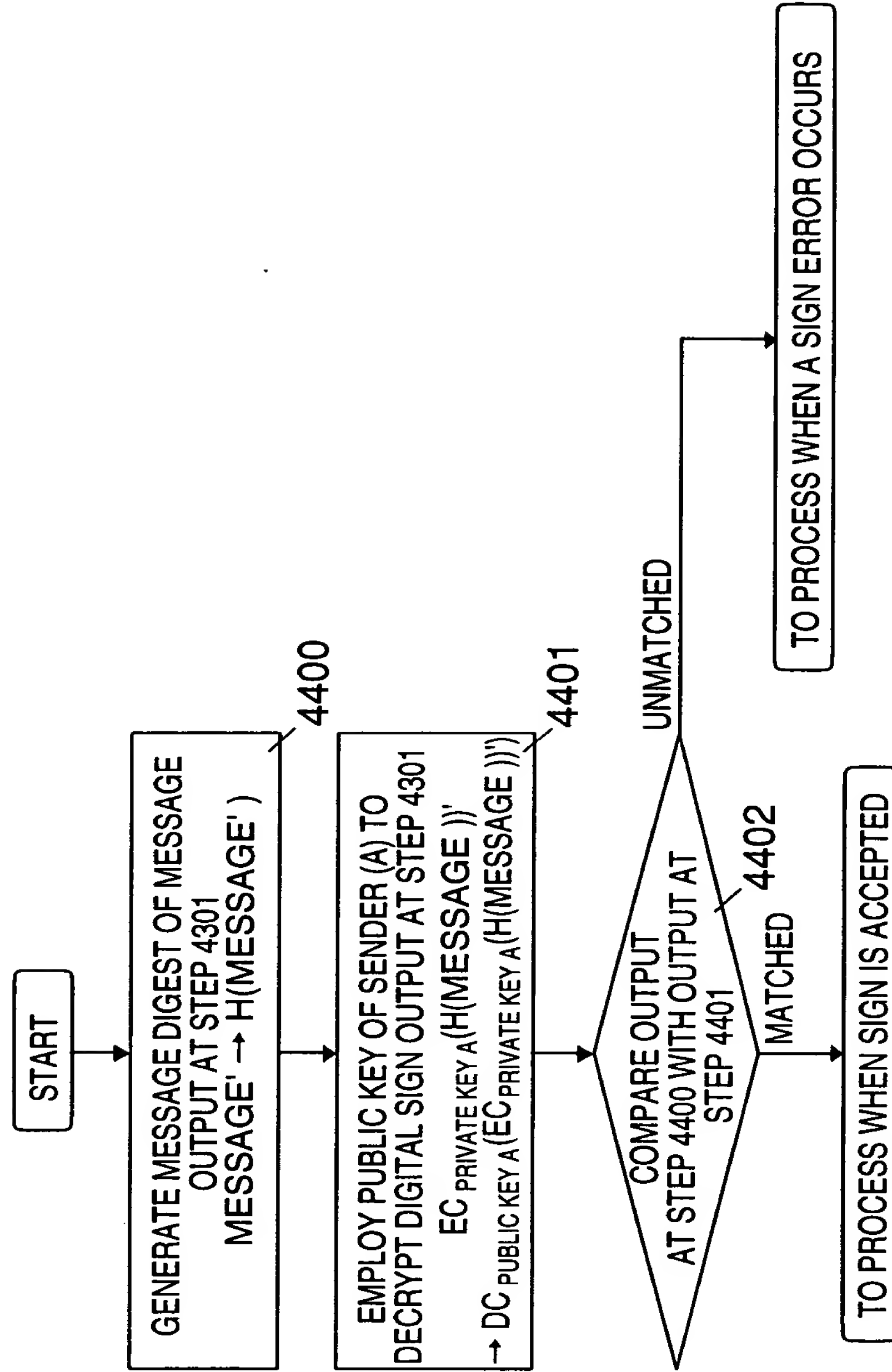
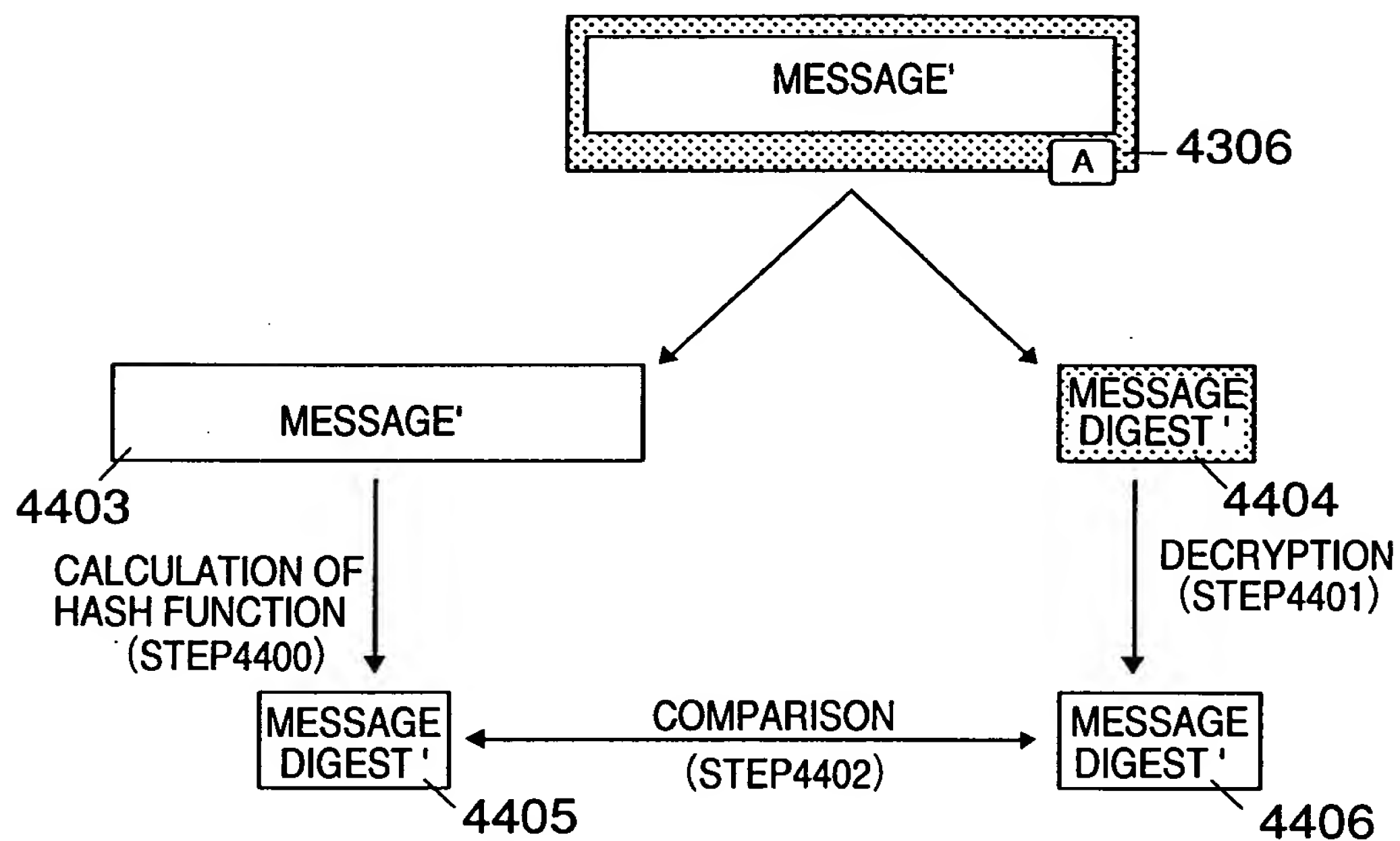


FIG. 44A



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FIG. 44B



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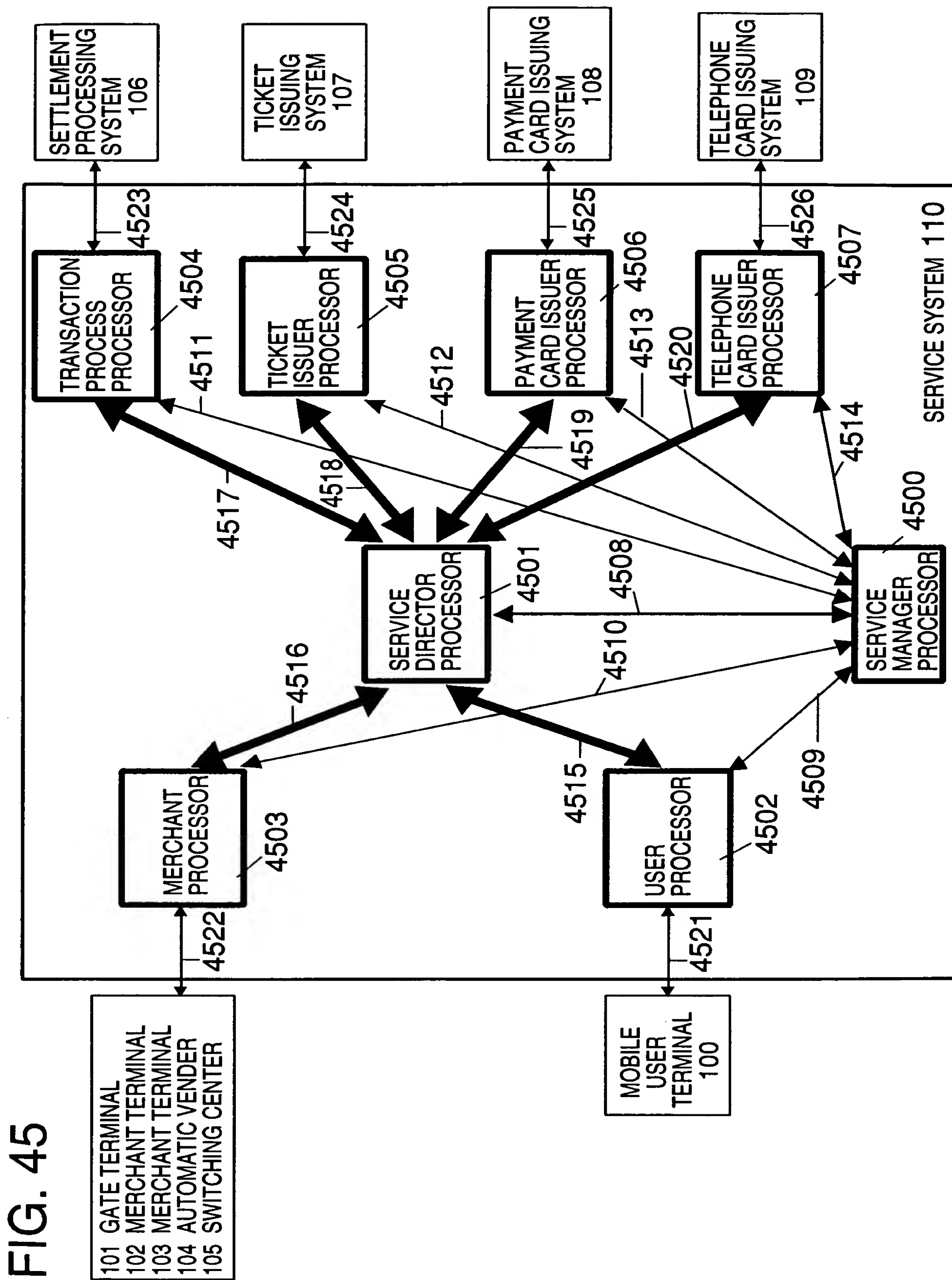


FIG. 46

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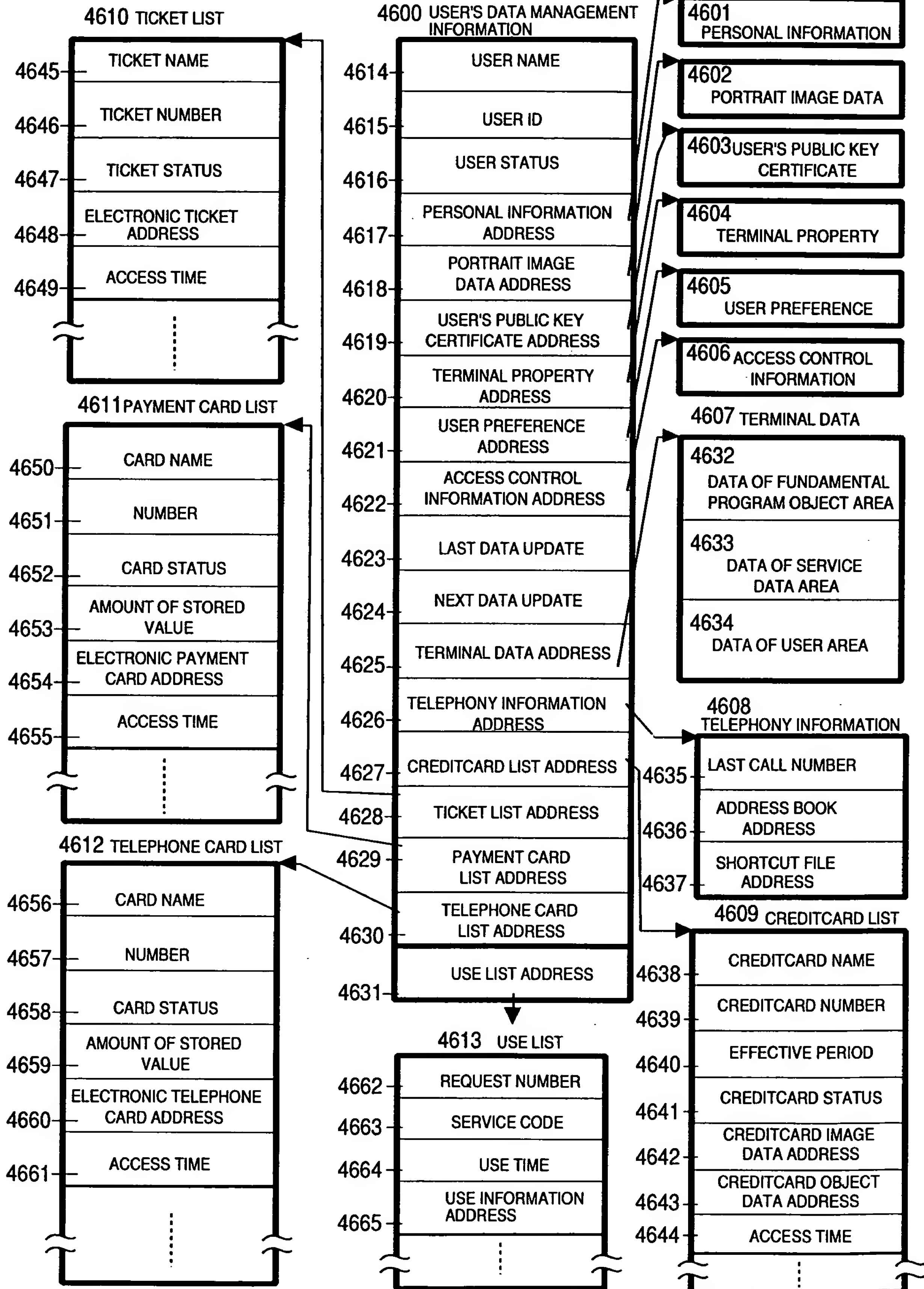


FIG. 47

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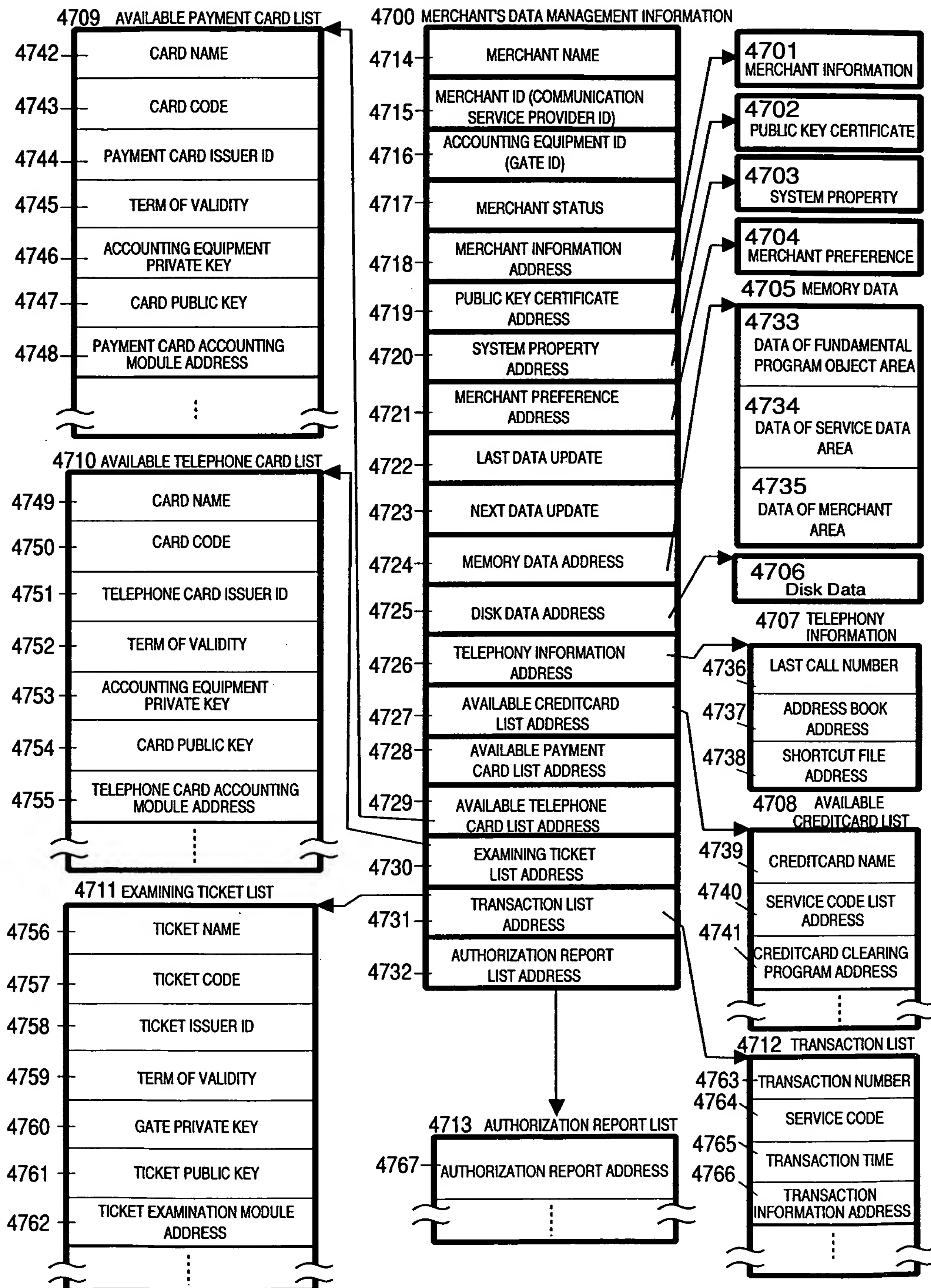
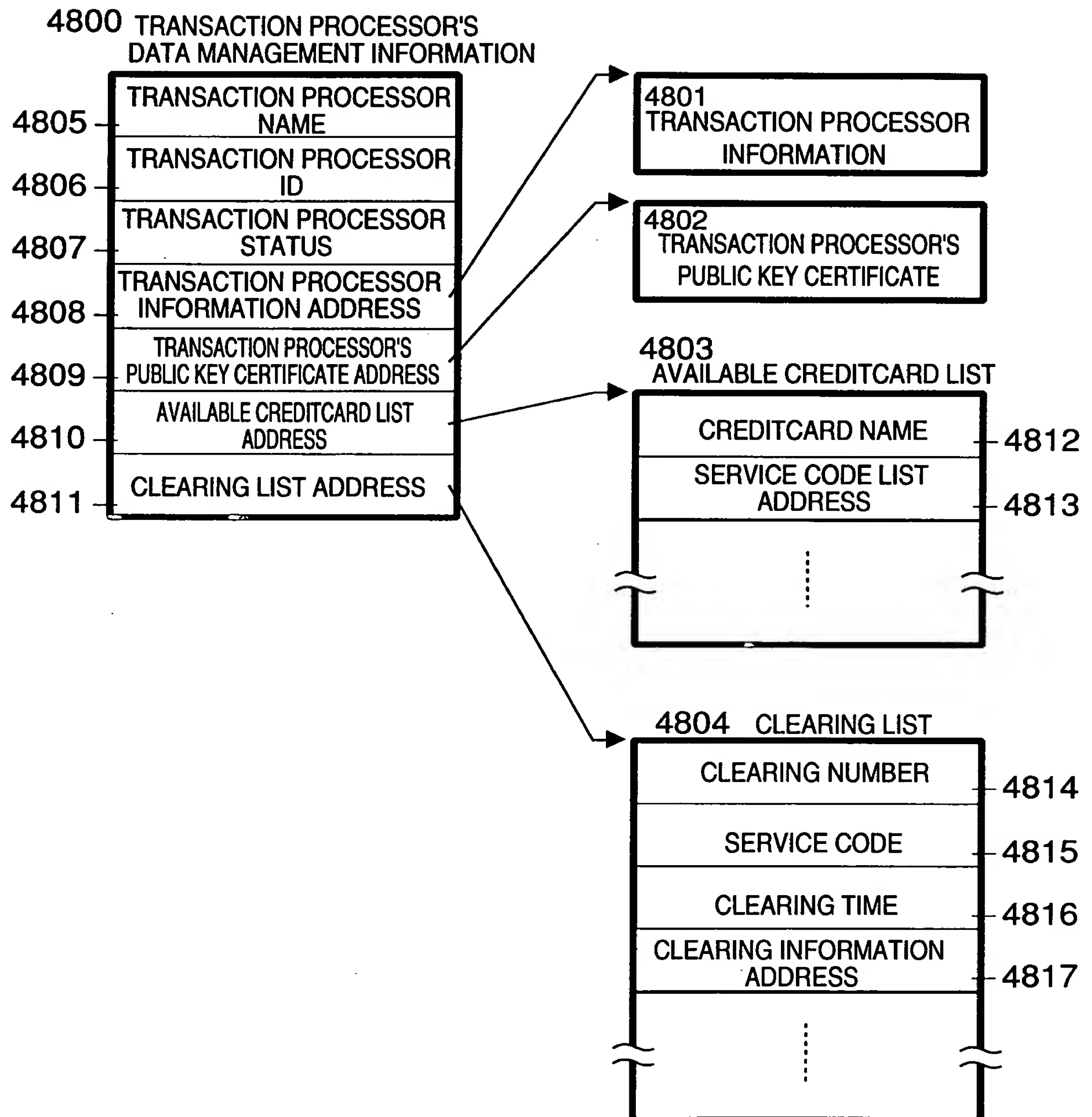


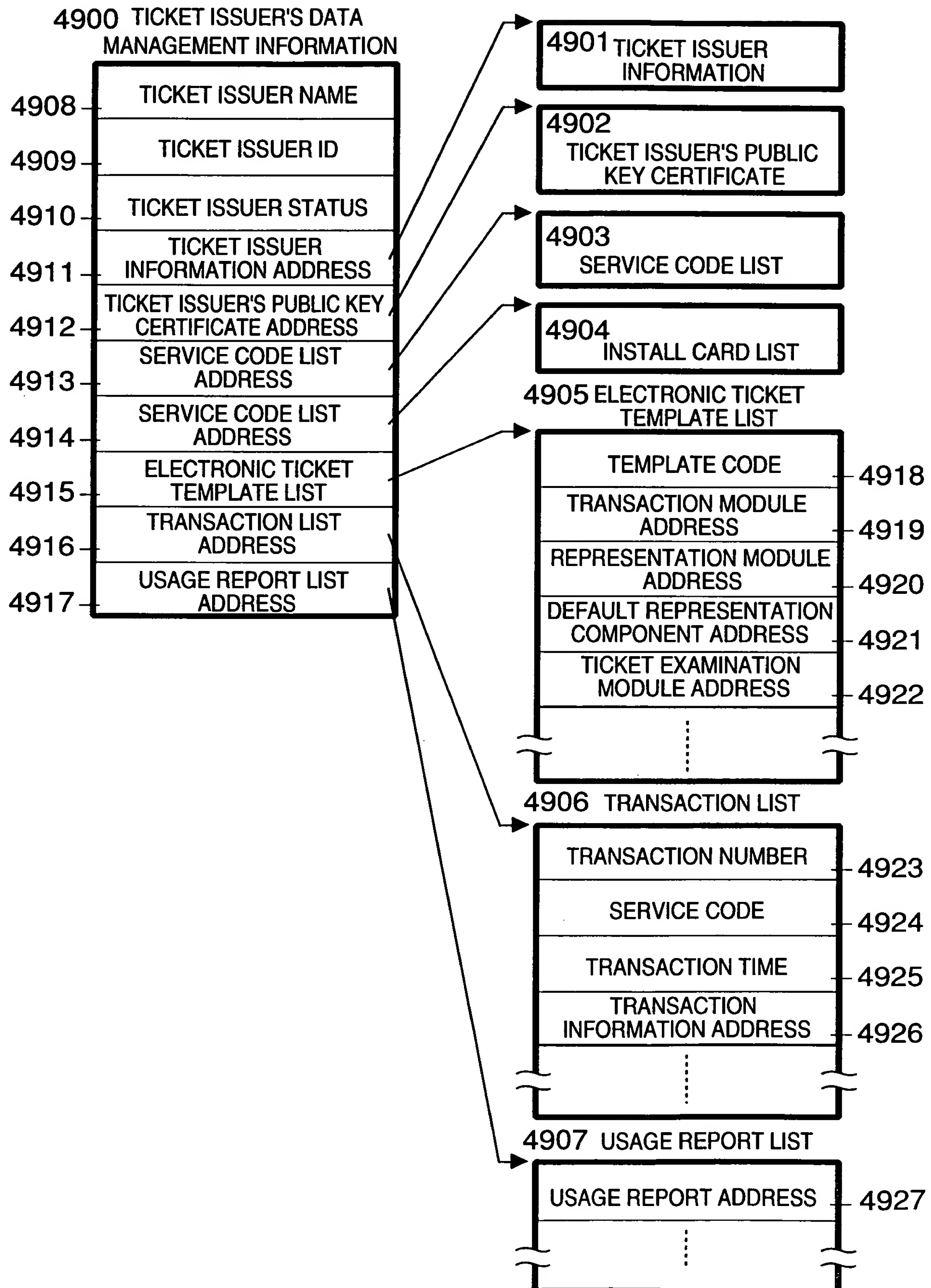
FIG. 48





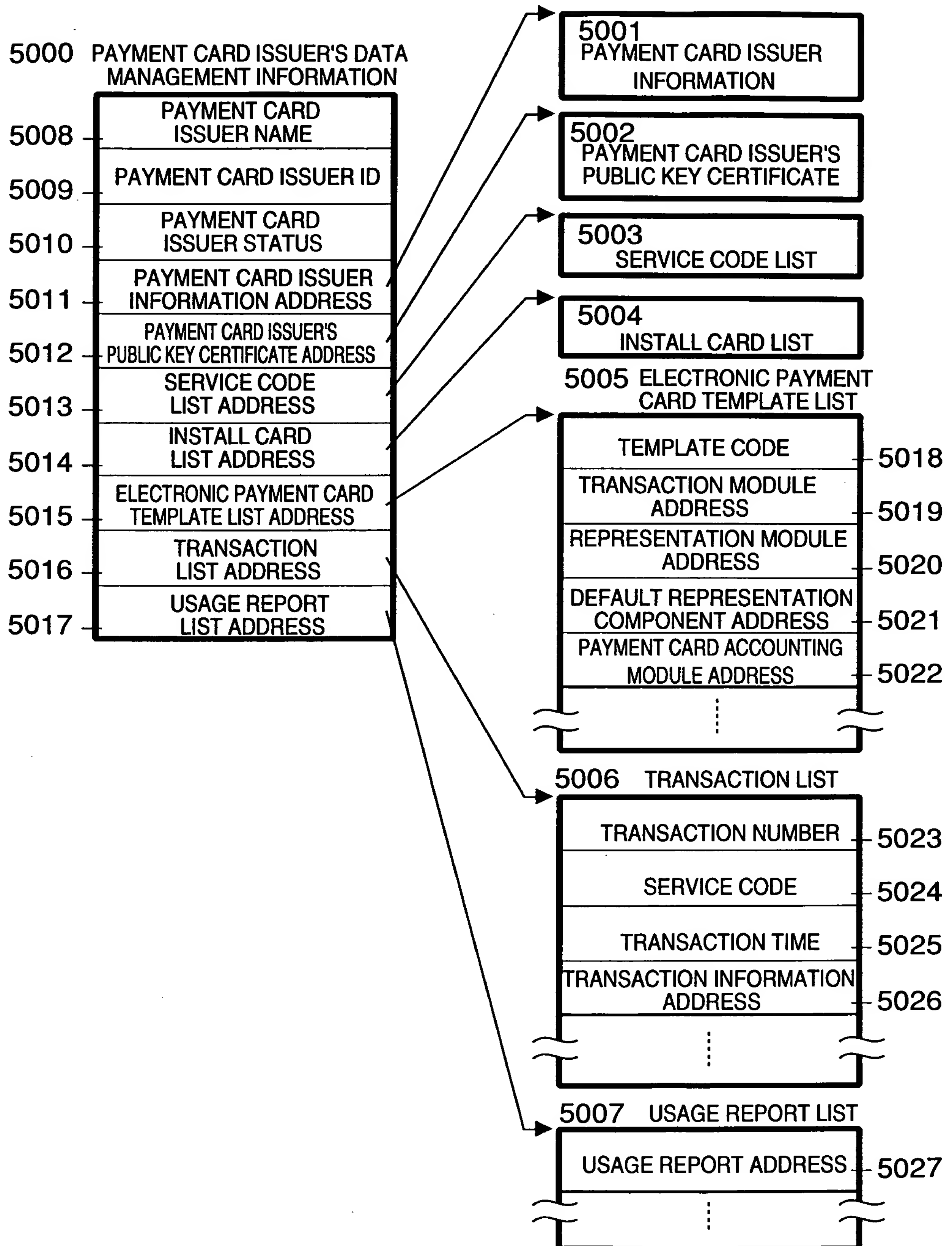
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FIG. 49



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FIG. 50



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FIG. 51

5100 TELEPHONE CARD ISSUER'S DATA  
MANAGEMENT INFORMATION

5108	TELEPHONE CARD ISSUER NAME
5109	TELEPHONE CARD ISSUER ID
5110	TELEPHONE CARD ISSUER STATUS
5111	TELEPHONE CARD ISSUER INFORMATION ADDRESS
5112	TELEPHONE CARD ISSUER'S PUBLIC KEY CERTIFICATE ADDRESS
5113	SERVICE CODE LIST ADDRESS
5114	INSTALL CARD LIST ADDRESS
5115	ELECTRONIC TELEPHONE CARD TEMPLATE LIST ADDRESS
5116	TRANSACTION LIST ADDRESS
5117	USAGE REPORT LIST ADDRESS

5101  
TELEPHONE CARD ISSUER  
INFORMATION5102  
TELEPHONE CARD ISSUER'S  
PUBLIC KEY CERTIFICATE5103  
SERVICE CODE LIST5104  
INSTALL CARD LIST5105 ELECTRONIC TELEPHONE  
CARD TEMPLATE LIST

5118	TEMPLATE CODE
5119	TRANSACTION MODULE ADDRESS
5120	REPRESENTATION MODULE ADDRESS
5121	DEFAULT REPRESENTATION COMPONENT ADDRESS
5122	TELEPHONE CARD ACCOUNTING MODULE ADDRESS
	⋮

## 5106 TRANSACTION LIST

5123	TRANSACTION NUMBER
5124	SERVICE CODE
5125	TRANSACTION TIME
5126	TRANSACTION INFORMATION ADDRESS
	⋮

## 5107 USAGE REPORT LIST

5127	USAGE REPORT ADDRESS
	⋮

FIG. 52A

5200 USER LIST

5207	USER NAME
5208	USER ID
5209	USER'S TELEPHONE NUMBER
5210	USER PUBLIC KEY CERTIFICATE ADDRESS
5211	AVAILABLE SERVICE LIST ADDRESS
5212	USER INFORMATION ADDRESS
	...

FIG. 52B

5201 MERCHANT LIST

5213	MERCHANT NAME
5214	MERCHANT ID (COMMUNICATION SERVICE PROVIDER ID)
5215	ACCOUNTING EQUIPMENT ID (GATE ID)
5216	MERCHANT'S TELEPHONE NUMBER
5217	AVAILABLE SERVICE LIST ADDRESS
5218	CUSTOMERS TABLE ADDRESS
5219	MERCHANT INFORMATION ADDRESS
	...

FIG. 52C

5202 TRANSACTION  
PROCESSORS LIST

5220	TRANSACTION PROCESSOR NAME
5221	TRANSACTION PROCESSOR ID
5222	TRANSACTION PROCESSOR'S COMMUNICATION ID
5223	AVAILABLE SERVICE LIST ADDRESS
5224	TRANSACTION PROCESSOR INFORMATION ADDRESS
	...

FIG. 52D

5203 TICKET ISSUERS LIST	
5225	TICKET ISSUER NAME
5226	TICKET ISSUER ID
5227	TICKET ISSUER'S COMMUNICATION ID
5228	AVAILABLE SERVICE LIST ADDRESS
5229	INSTALL CARD LIST ADDRESS
5230	CUSTOMERS TABLE ADDRESS
5231	TICKET ISSUER INFORMATION ADDRESS
⋮	

FIG. 52E

5204 PAYMENT CARD ISSUERS LIST	
5232	PAYMENT CARD ISSUER NAME
5233	PAYMENT CARD ISSUER ID
5234	PAYMENT CARD ISSUER'S COMMUNICATION ID
5235	AVAILABLE SERVICE LIST ADDRESS
5236	INSTALL CARD LIST ADDRESS
5237	CUSTOMERS TABLE ADDRESS
5238	PAYMENT CARD ISSUER INFORMATION ADDRESS
⋮	

FIG. 52F

## 5205 TELEPHONE CARD ISSUERS LIST

5239	TELEPHONE CARD ISSUER NAME
5240	TELEPHONE CARD ISSUER ID
5241	TELEPHONE CARD ISSUER'S COMMUNICATION ID
5242	AVAILABLE SERVICE LIST ADDRESS
5243	INSTALL CARD LIST ADDRESS
5244	CUSTOMERS TABLE ADDRESS
5245	TELEPHONE CARD ISSUER INFORMATION ADDRESS
	...

FIG. 52G

## 5206 PROVIDED SERVICE LIST

5246	SERVICE PROVIDING NUMBER
5247	SERVICE CODE
5248	SERVICE PROVIDING TIME
5249	PROVIDED SERVICE INFORMATION ADDRESS
	...

FIG. 53

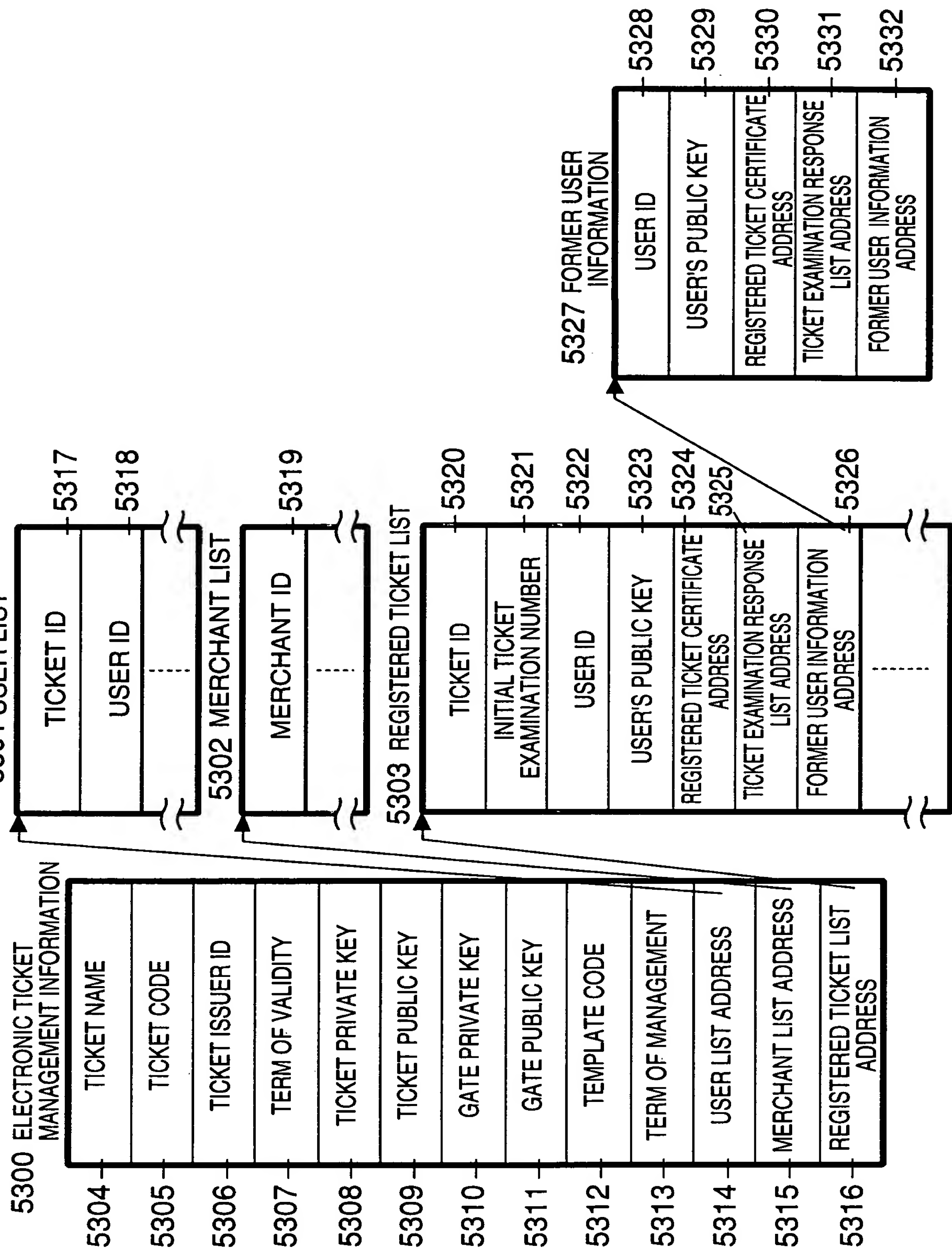


FIG. 54

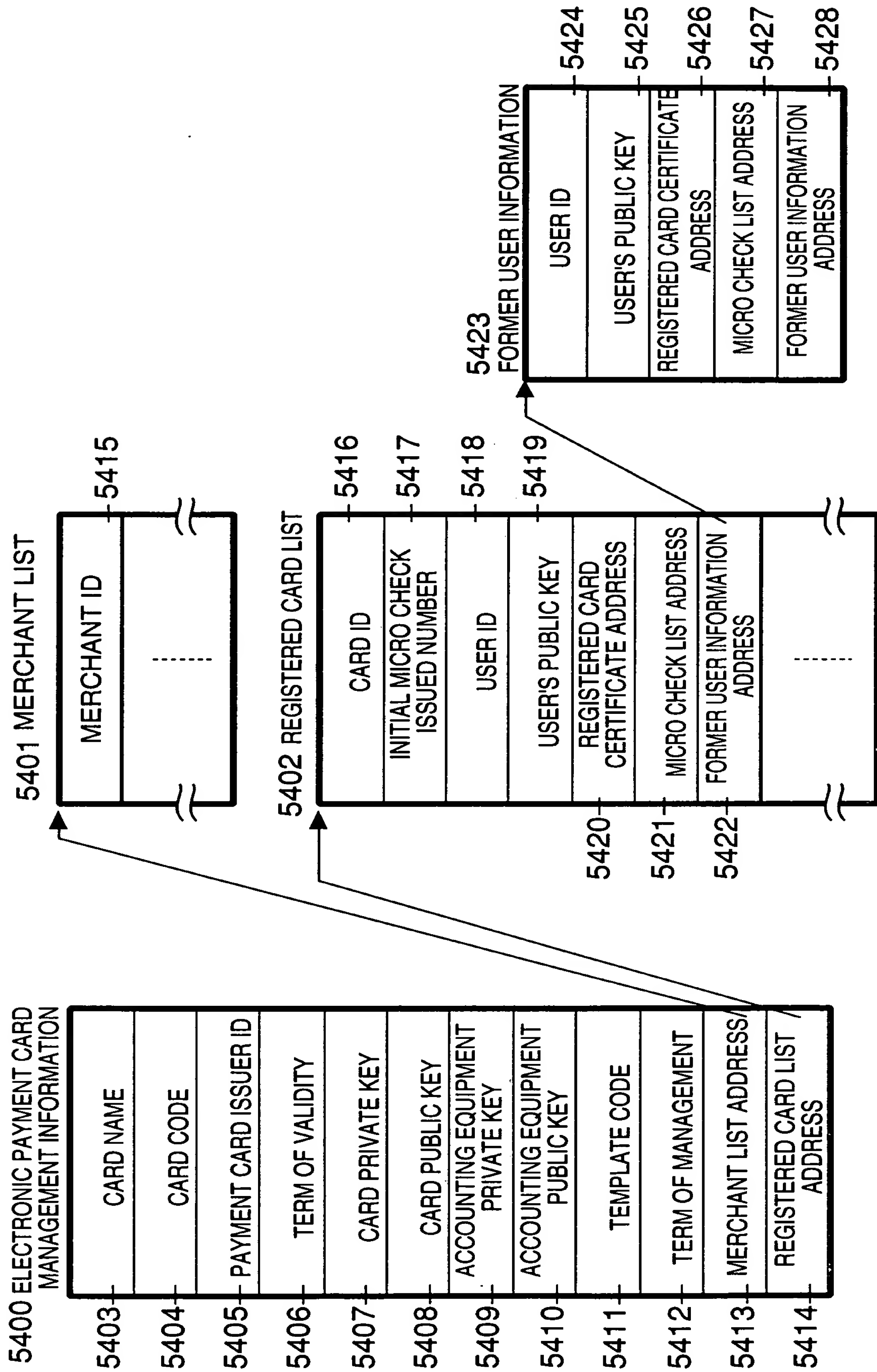
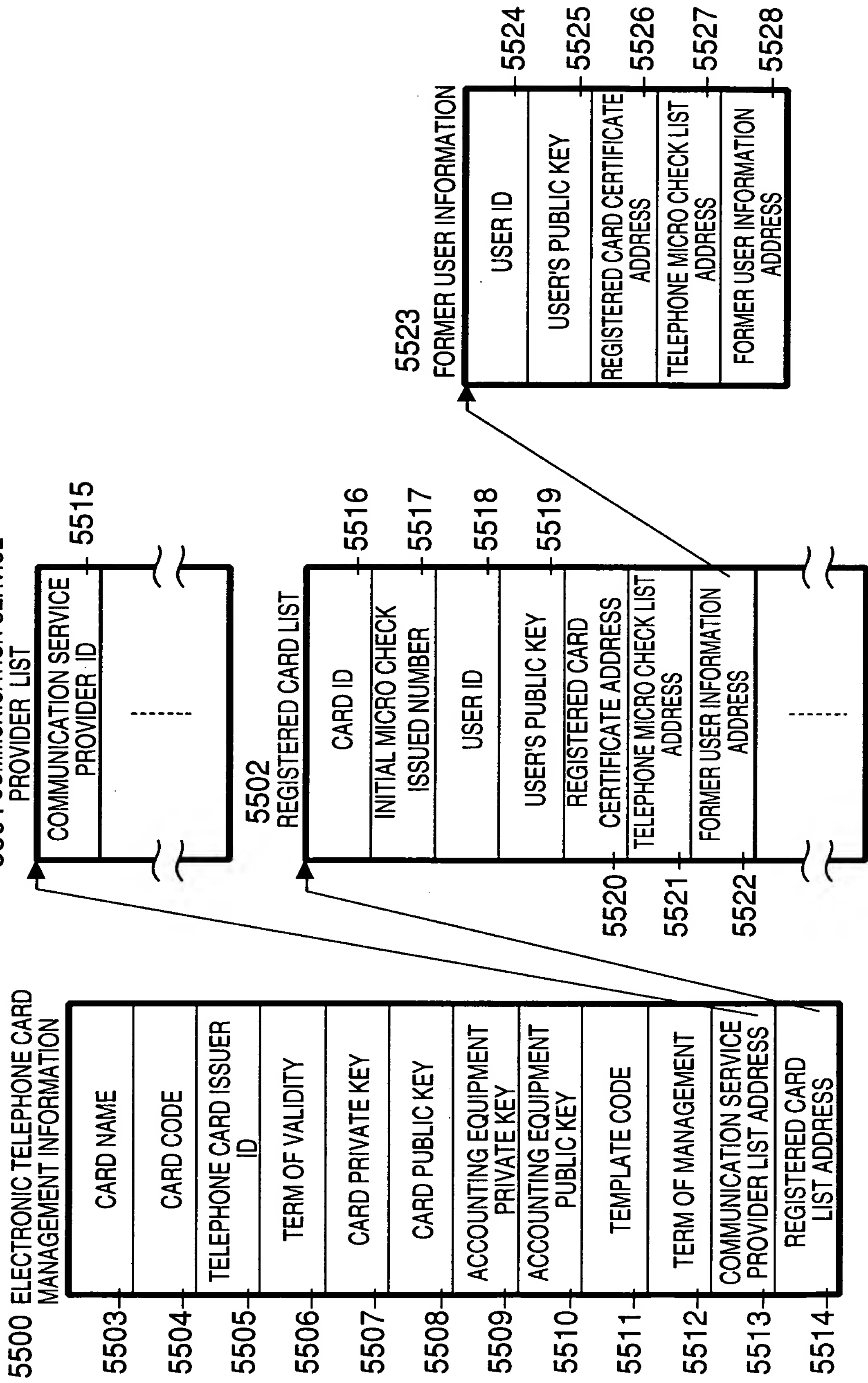




FIG. 55



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FIG. 56A

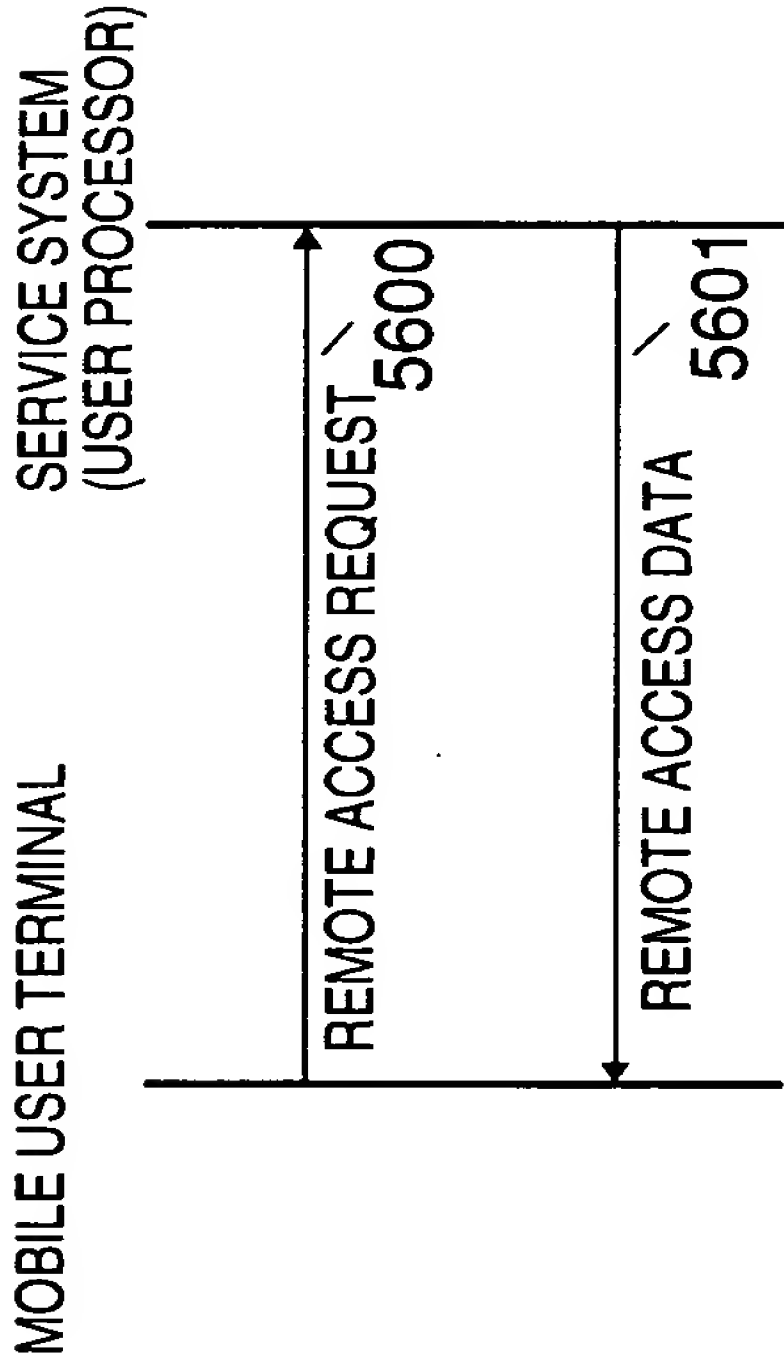


FIG. 56B

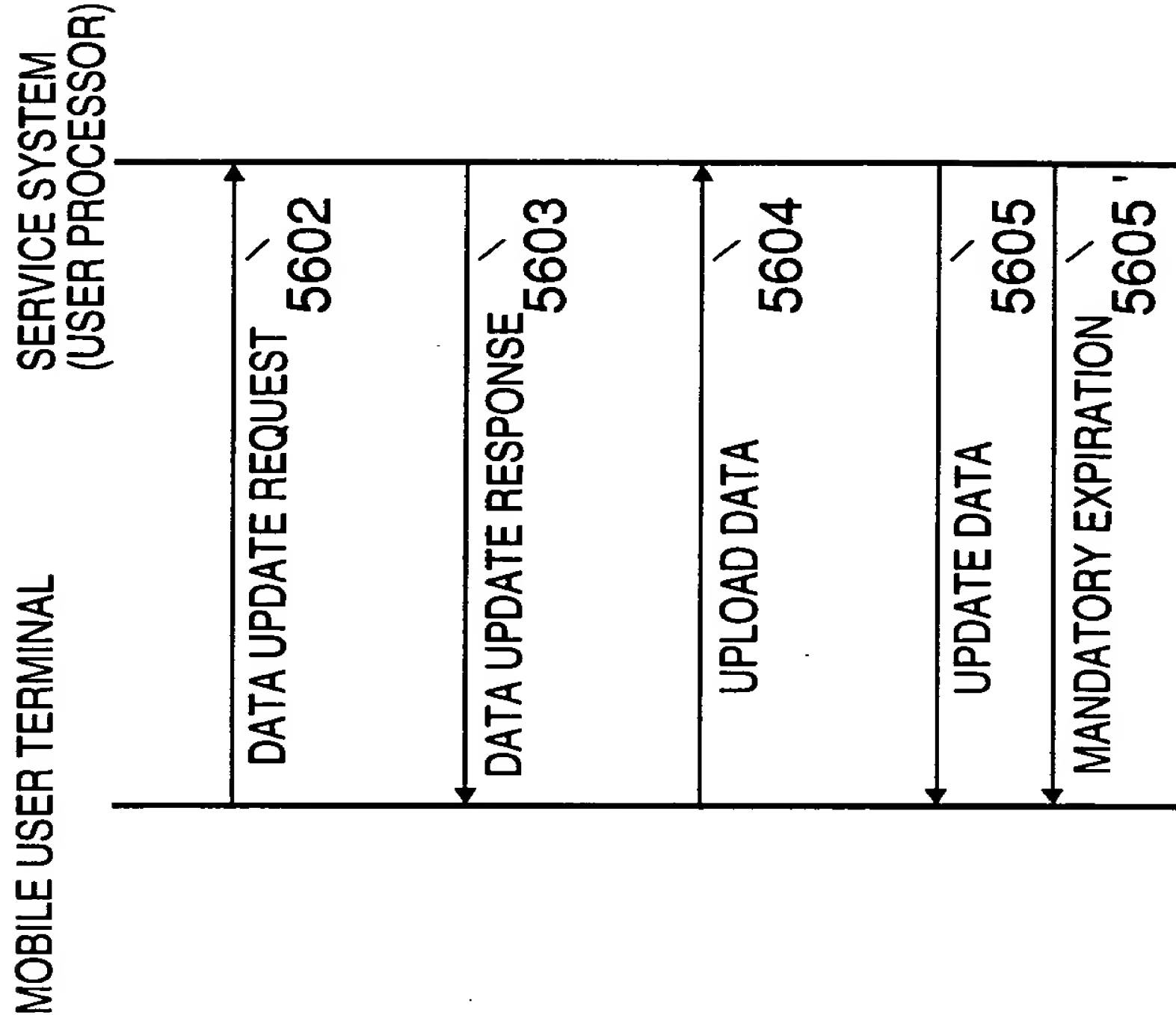


FIG. 56C

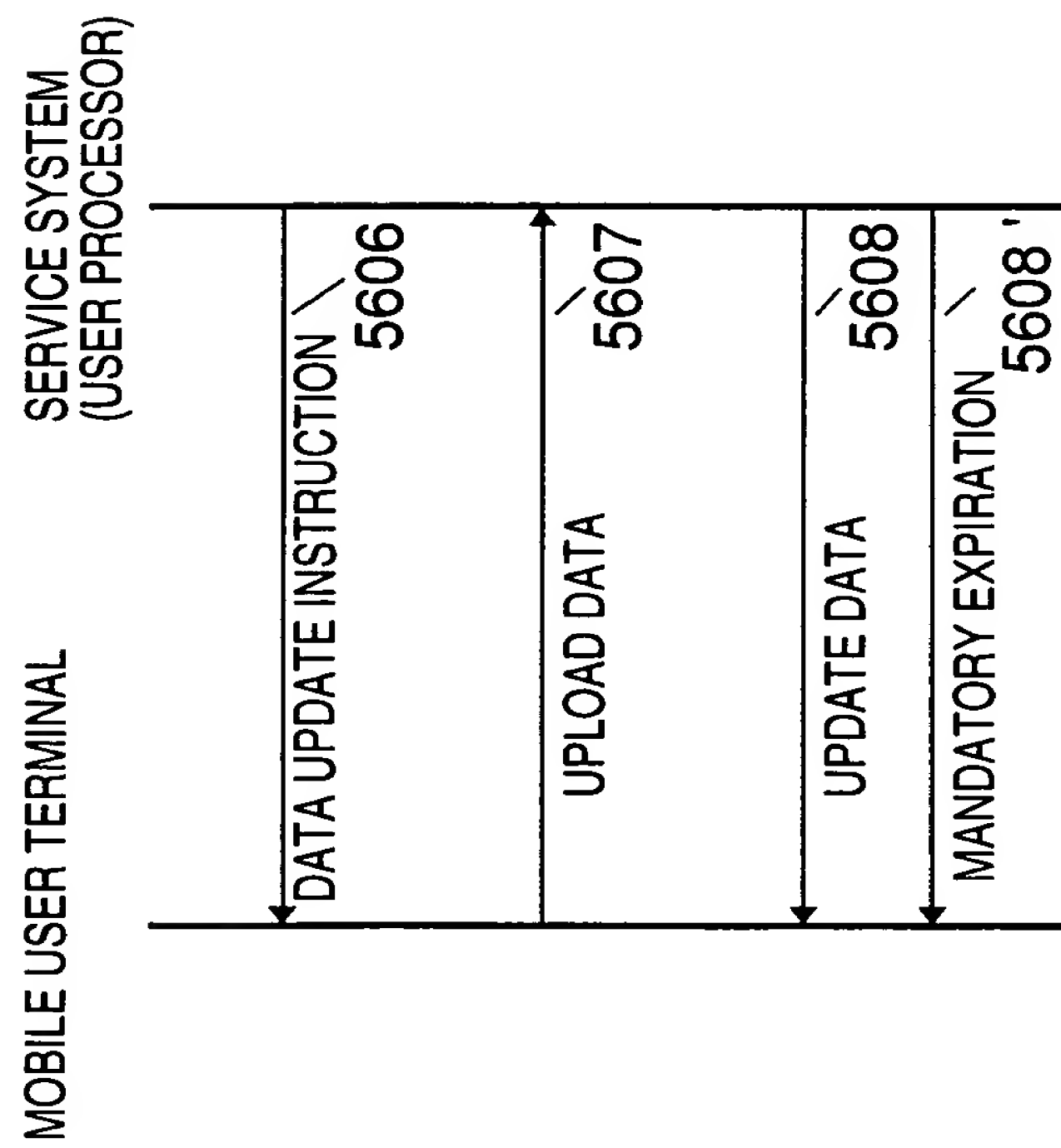


FIG. 56D

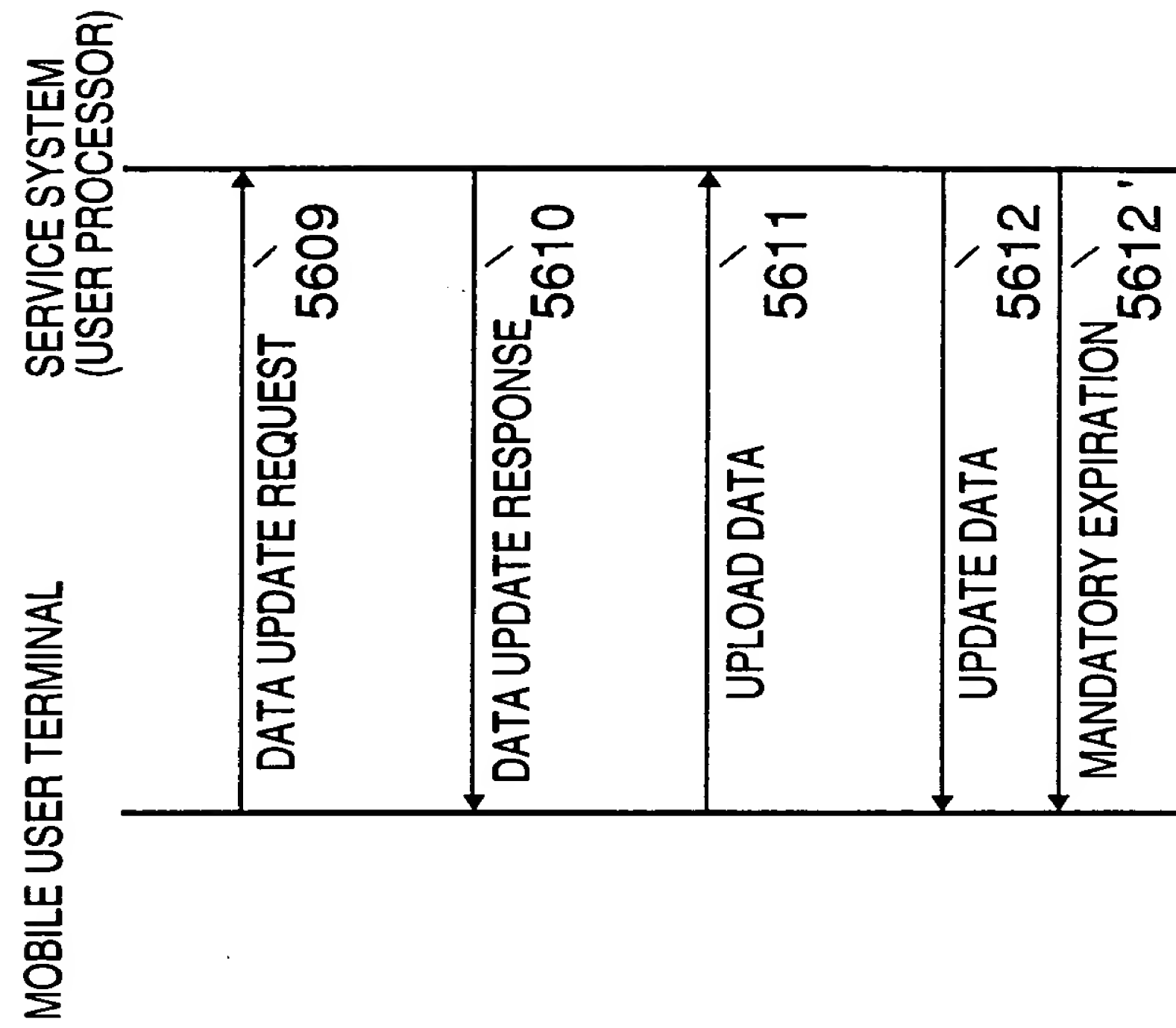


FIG. 57B

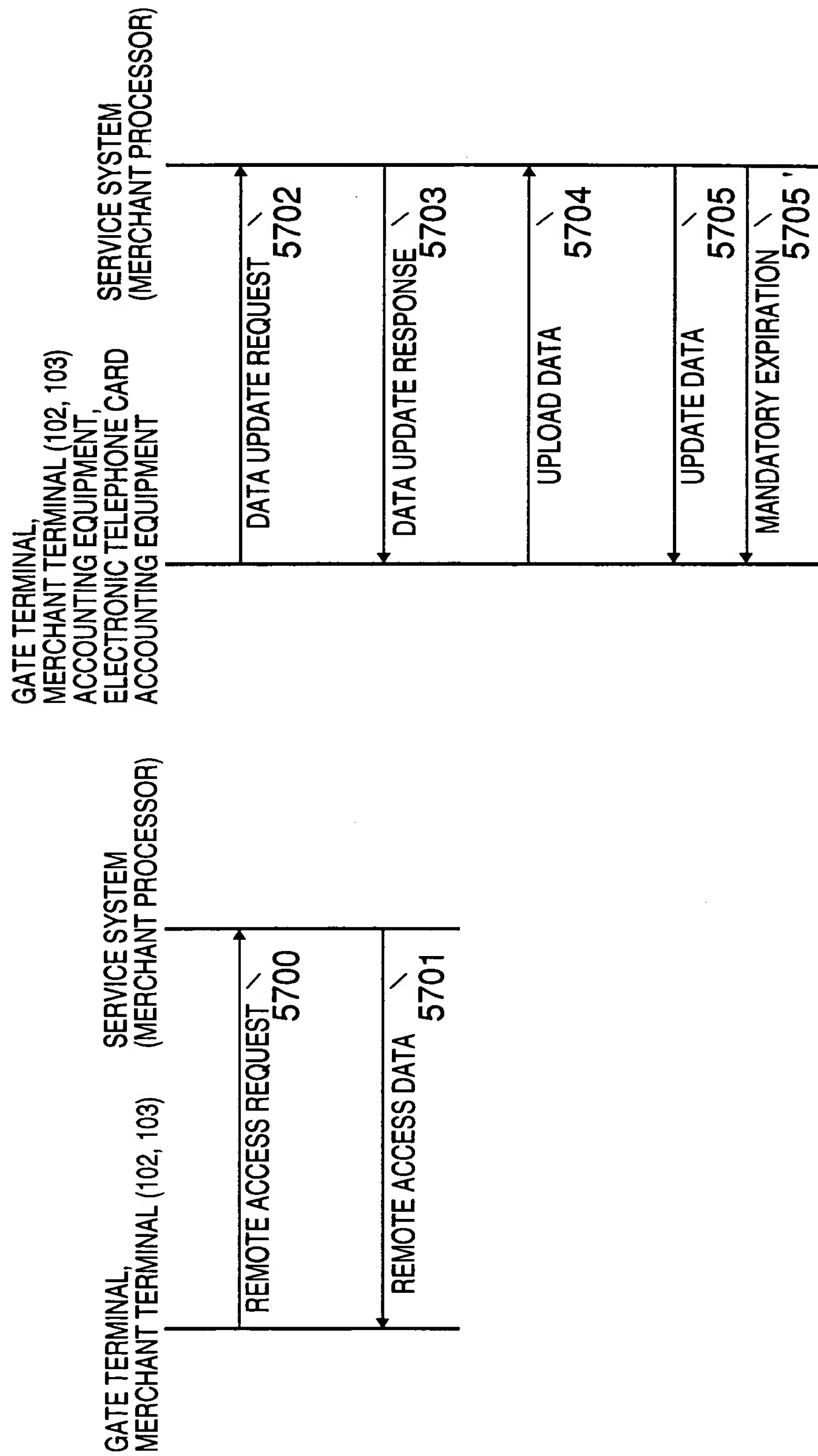


FIG. 57C

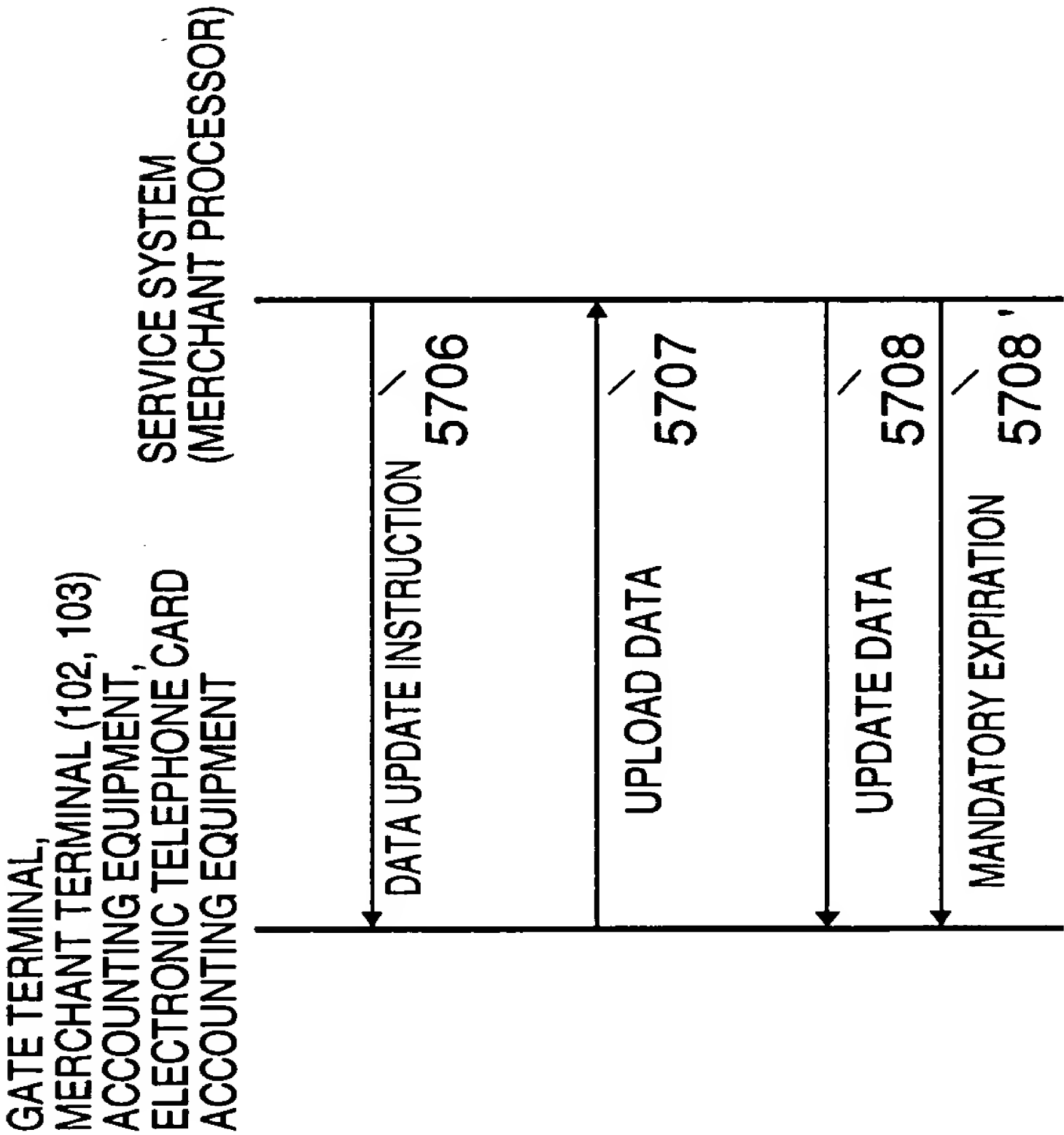
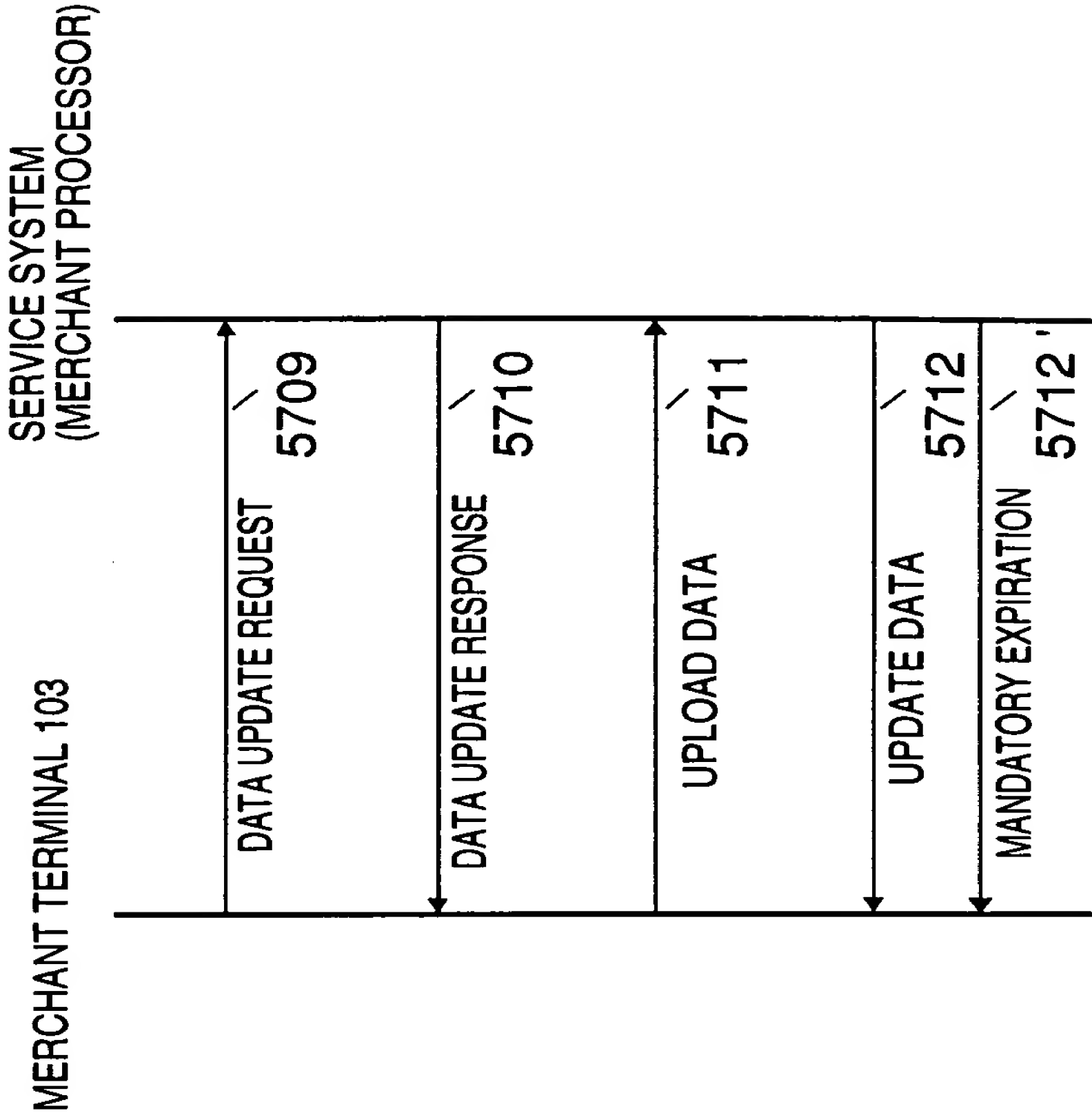
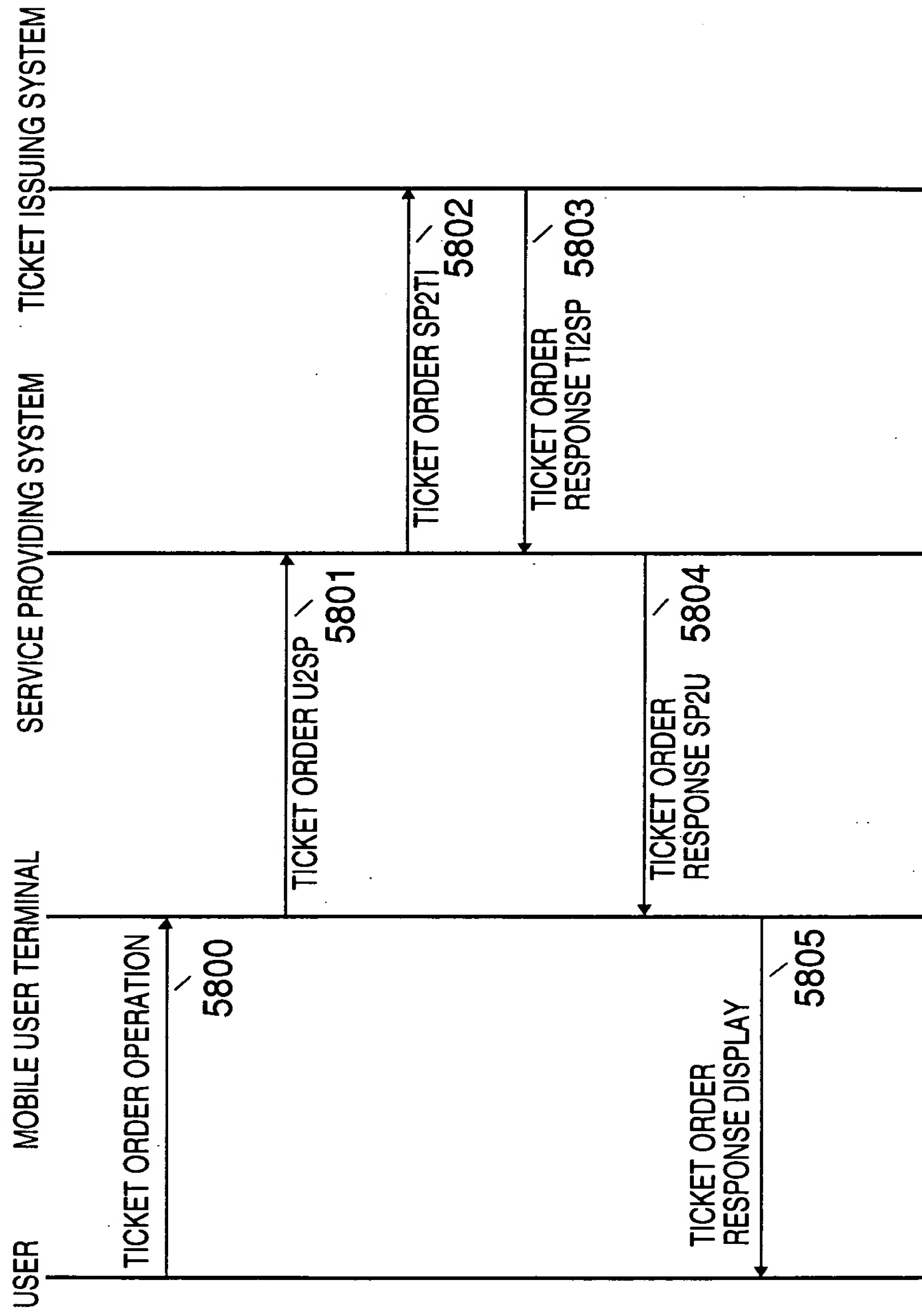


FIG. 57D



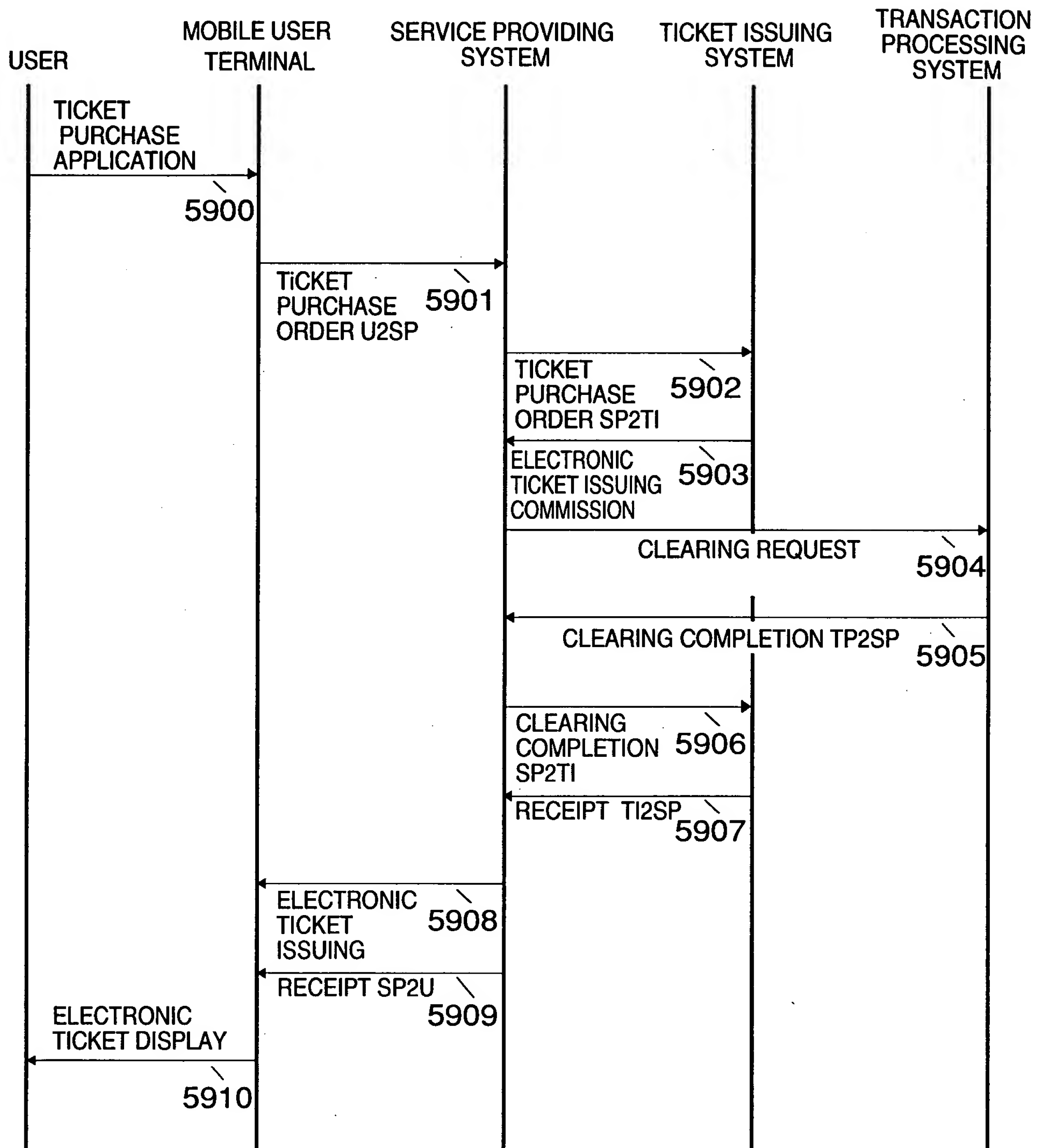
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FIG. 58



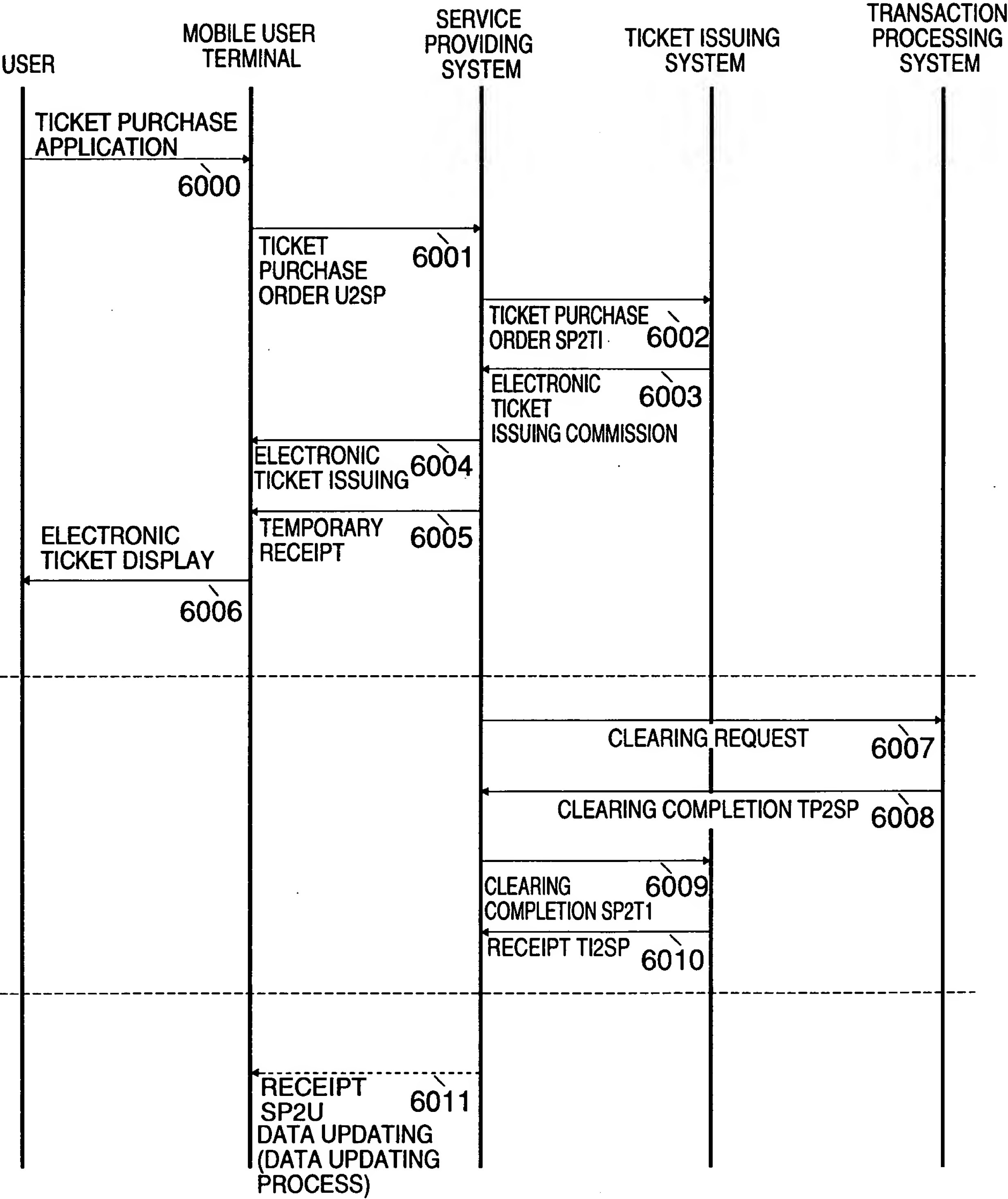
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FIG. 59



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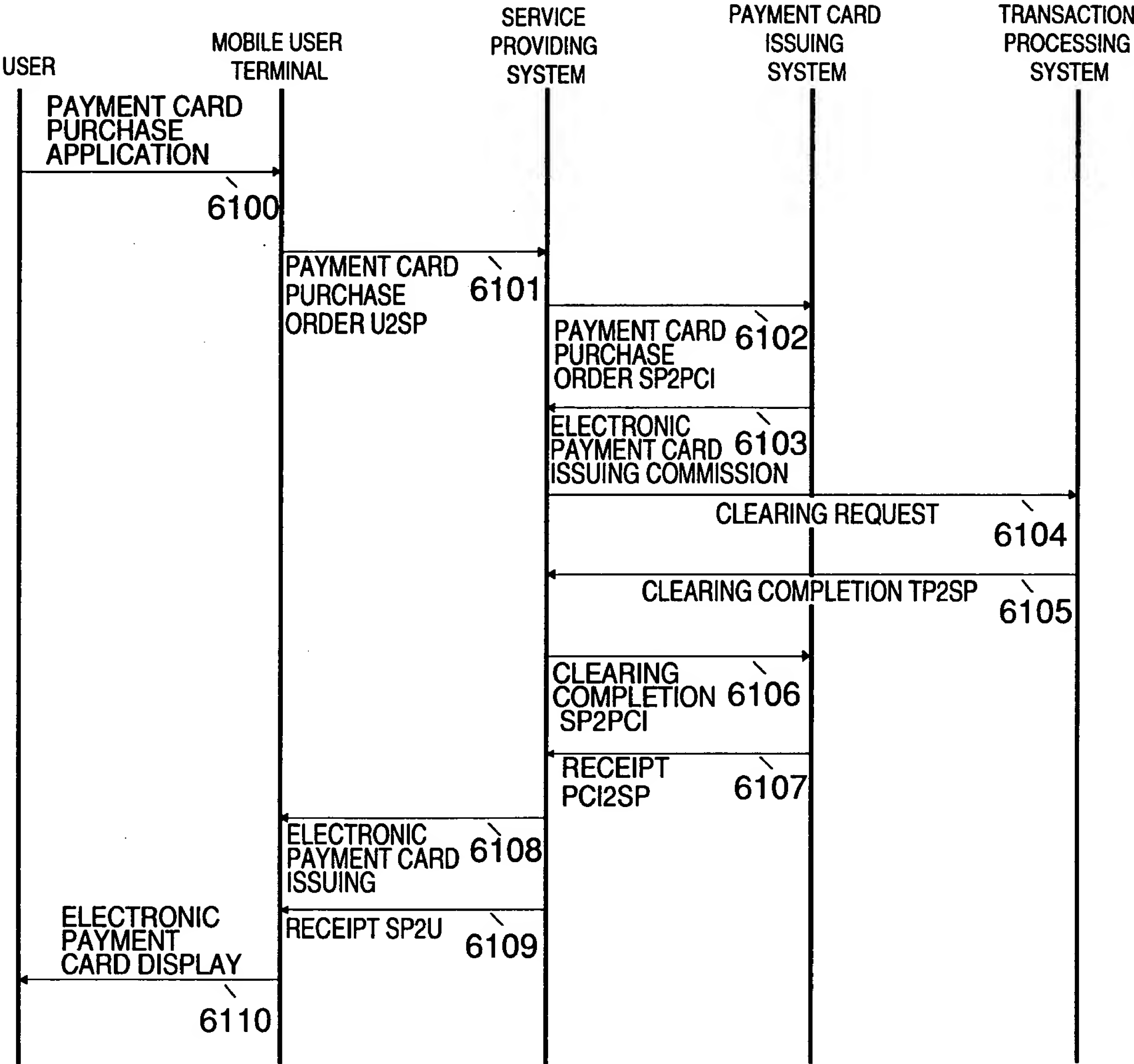
FIG. 60





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FIG. 61



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FIG. 62

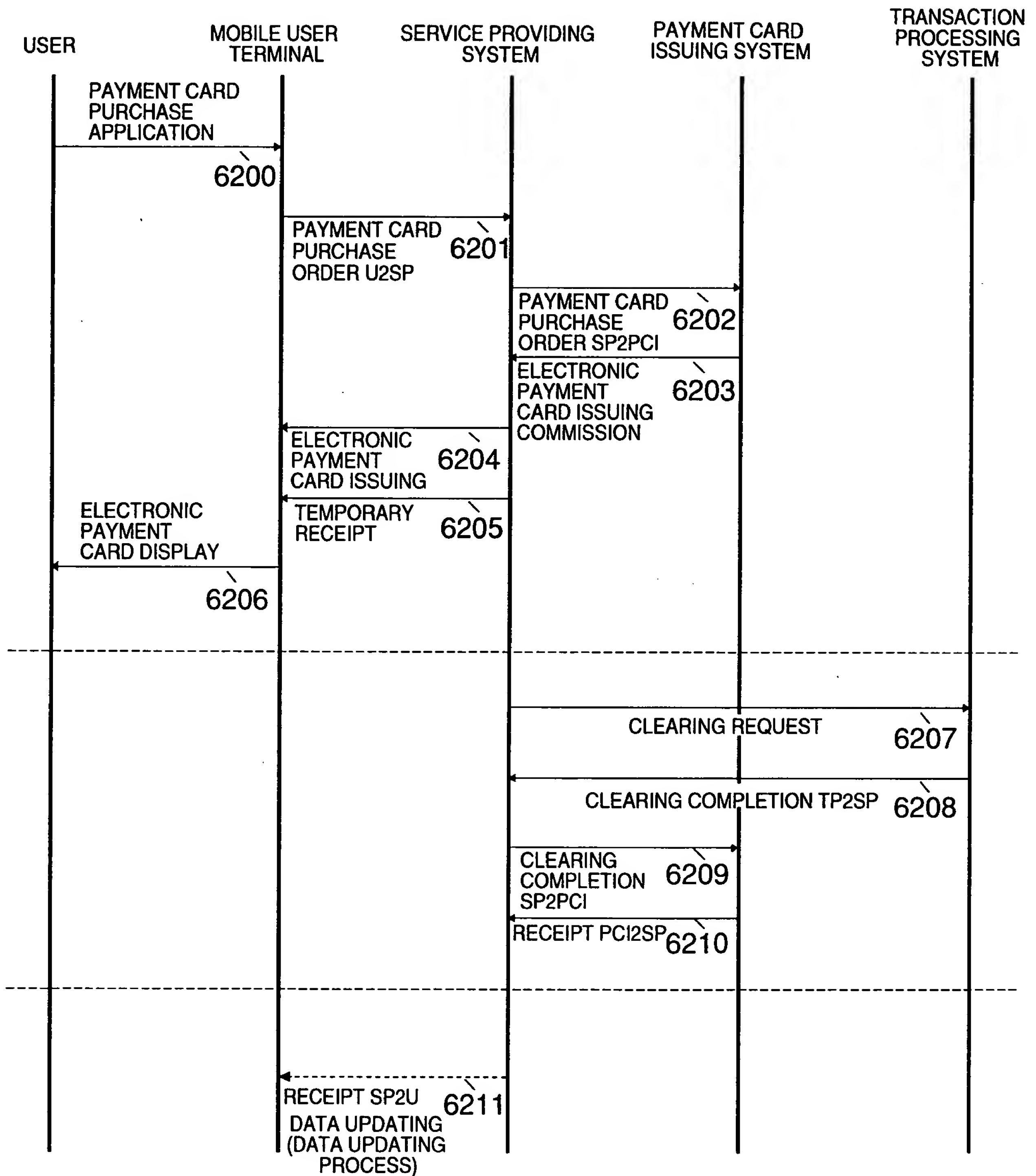
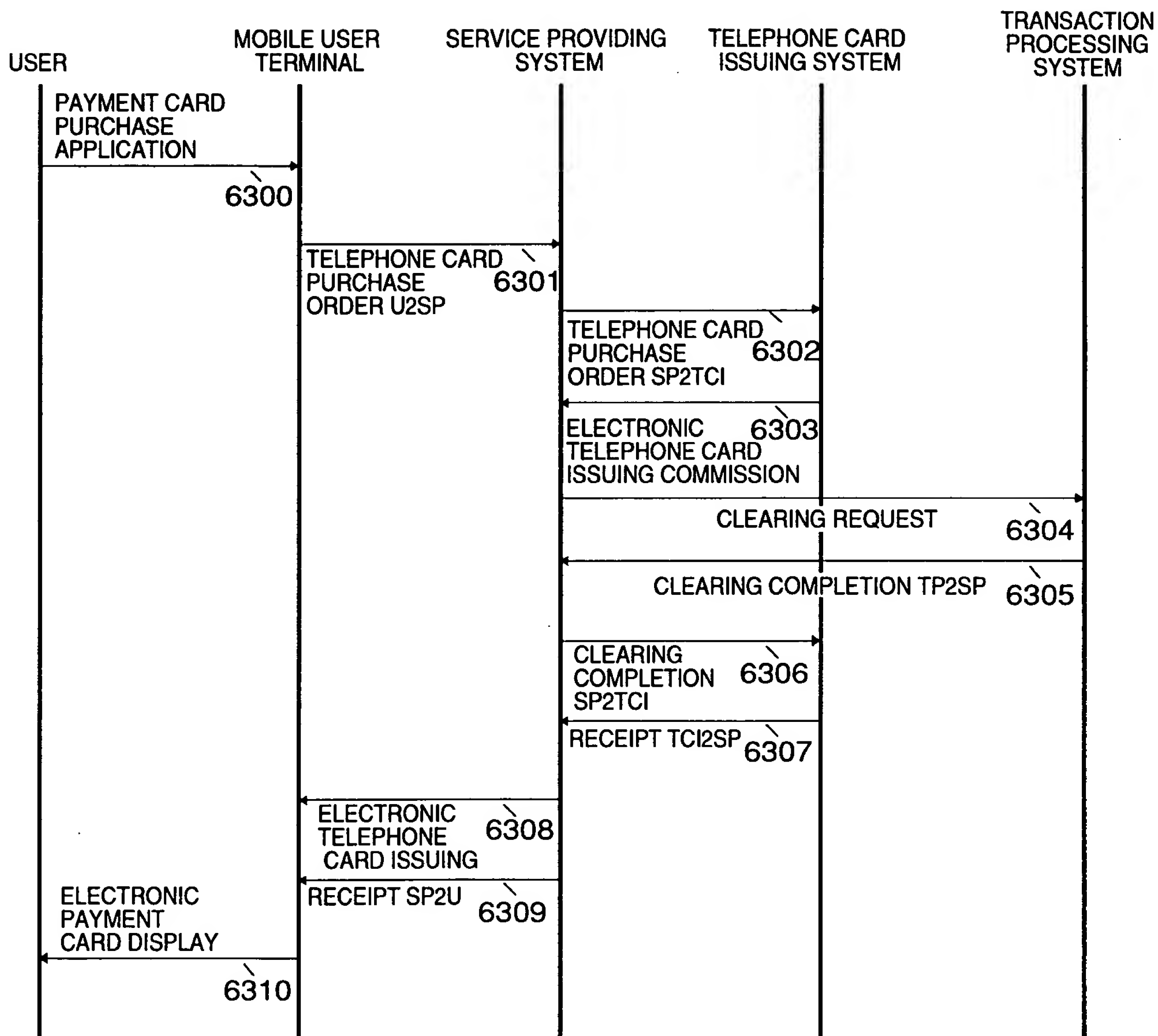
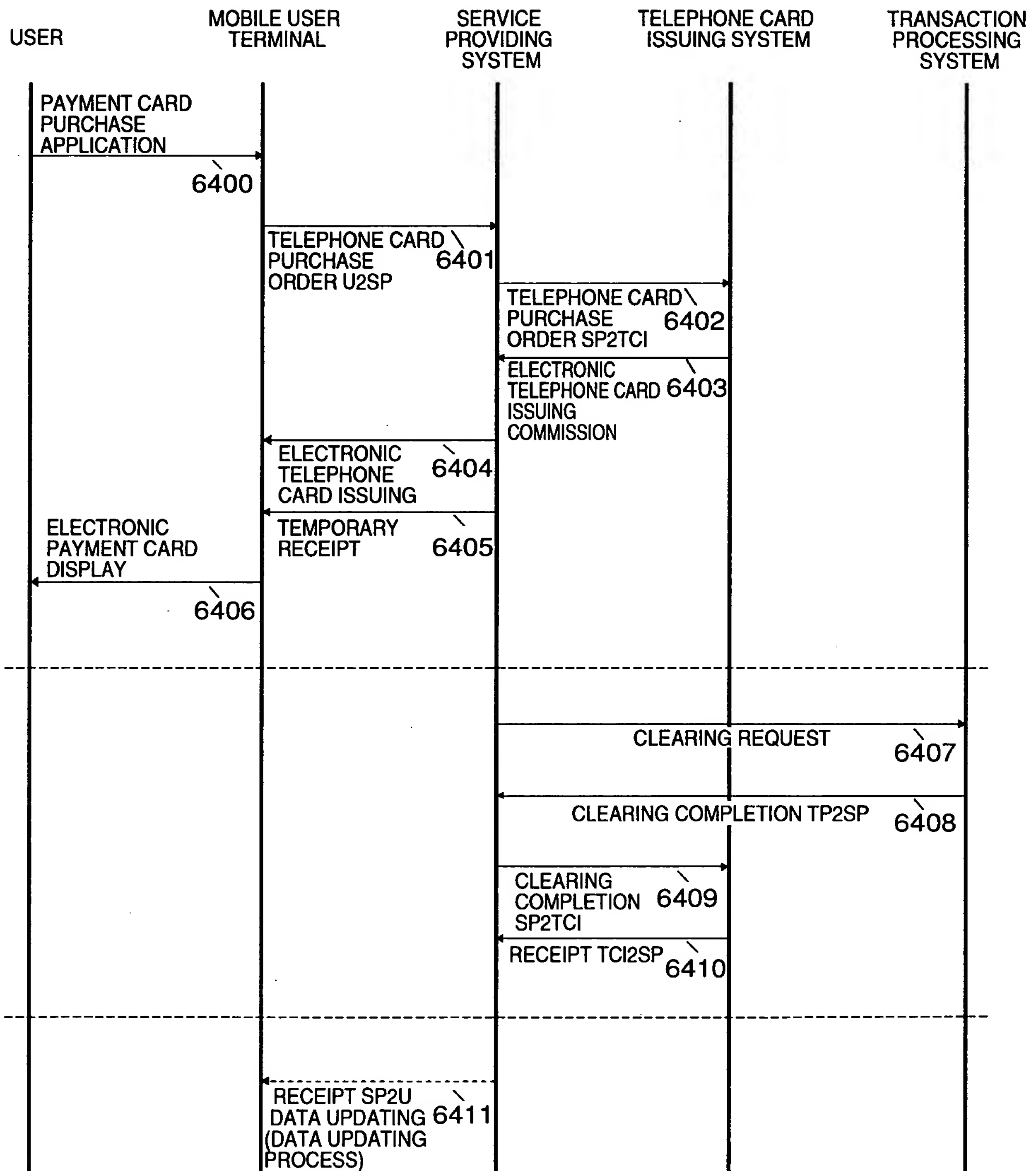


FIG. 63



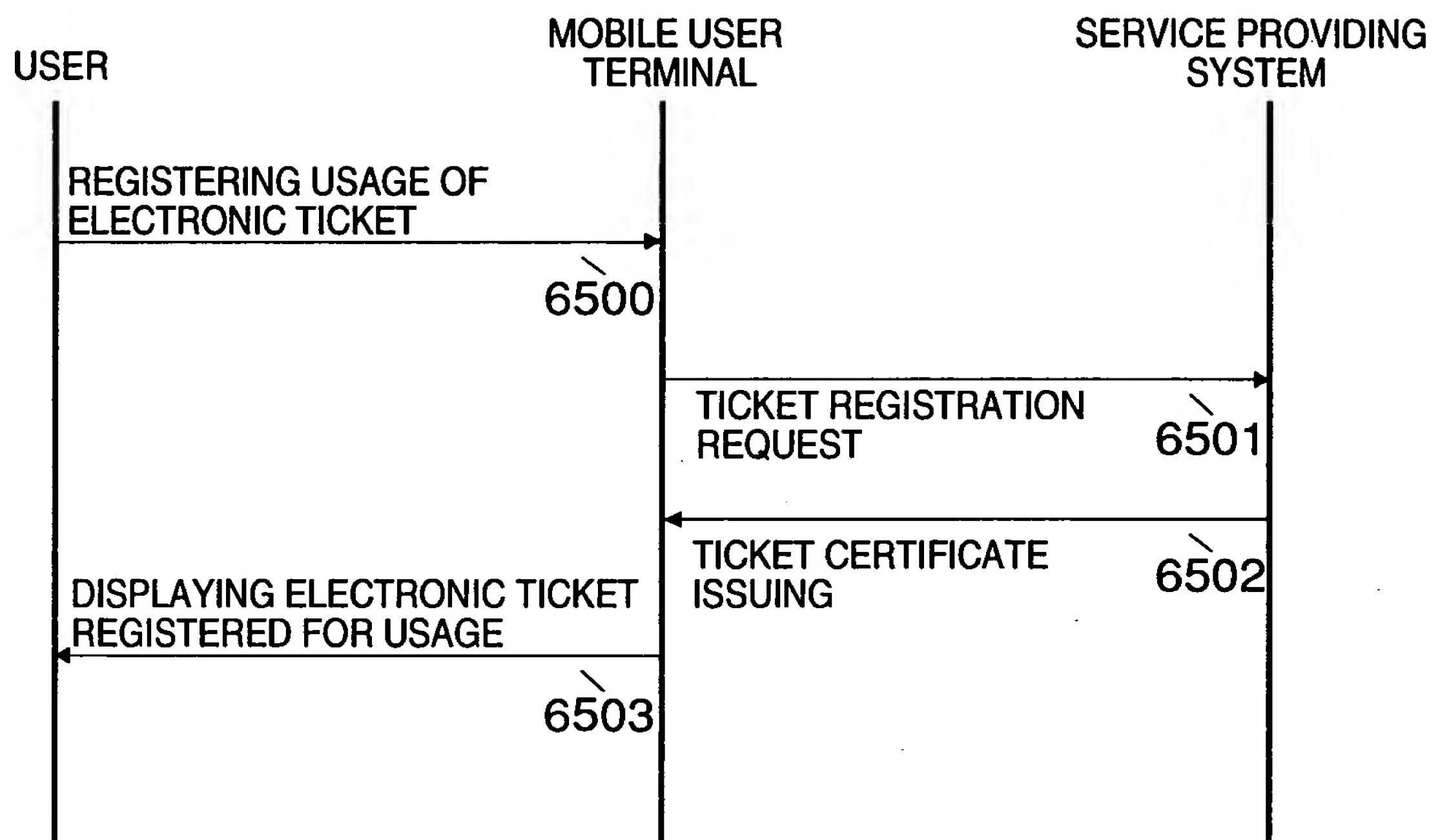
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FIG. 64



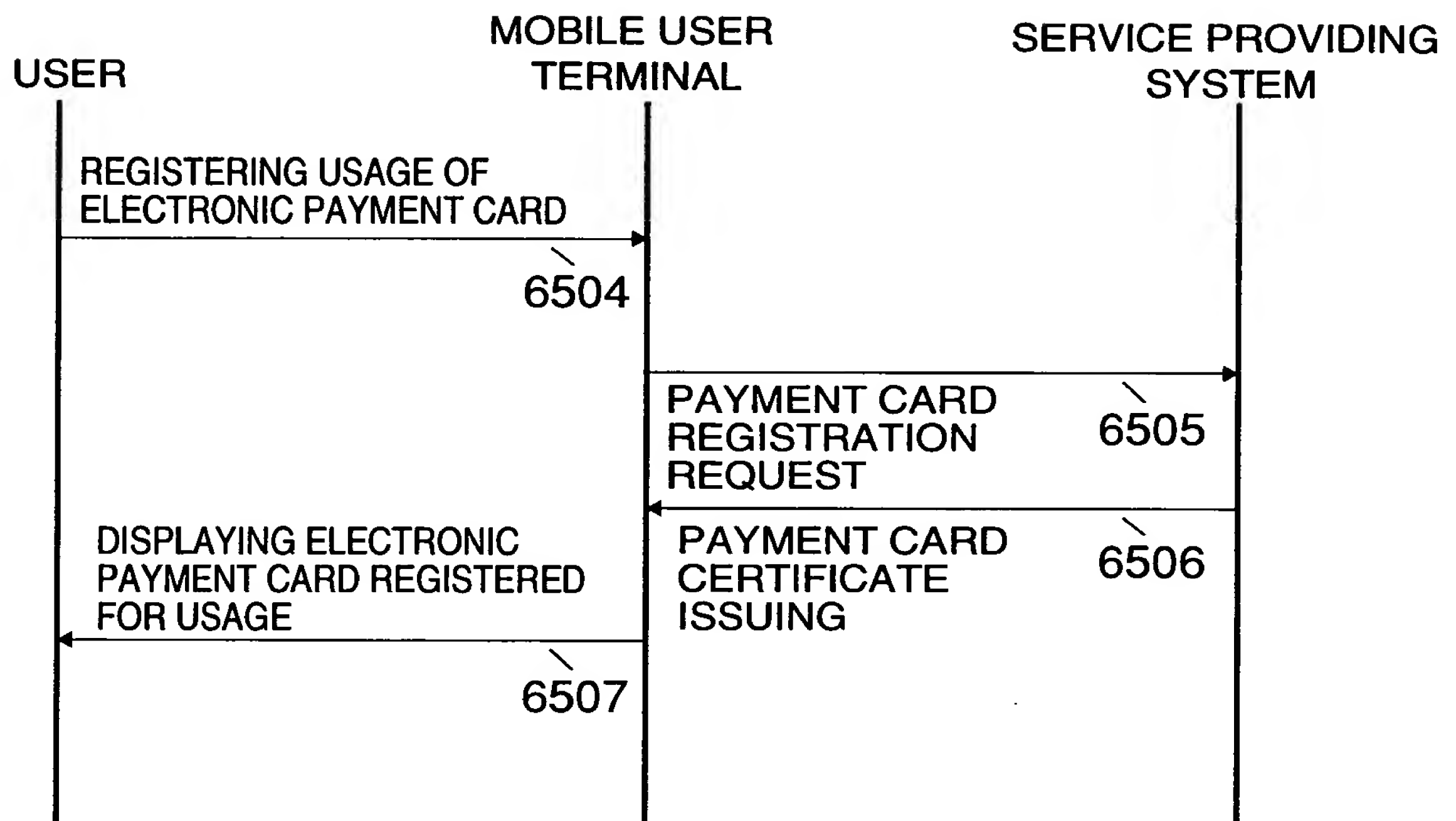
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FIG. 65A



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FIG. 65B



6504 REGISTERING USAGE OF ELECTRONIC PAYMENT CARD

6504

PAYMENT CARD REGISTRATION REQUEST

6505

DISPLAYING ELECTRONIC PAYMENT CARD REGISTERED FOR USAGE

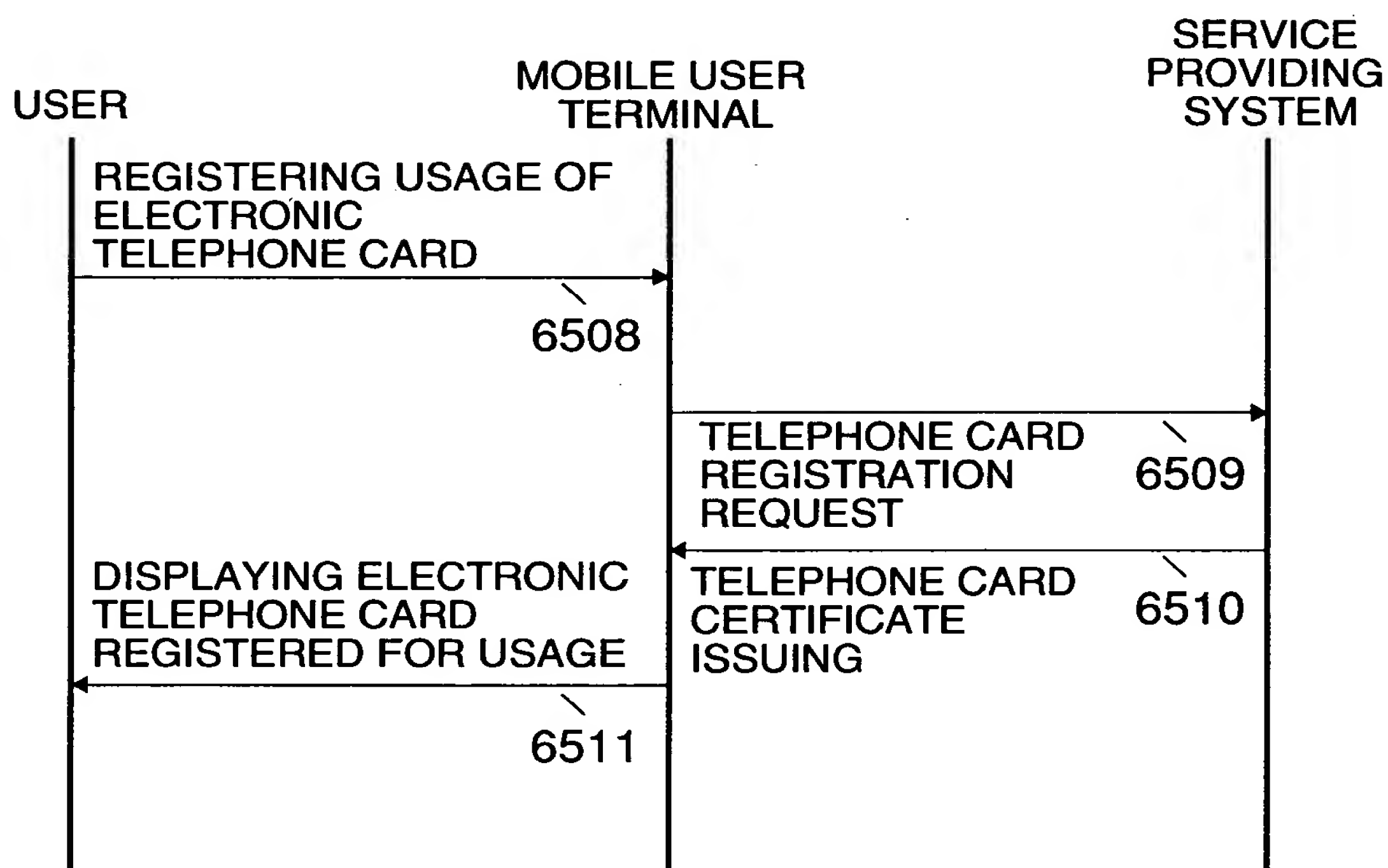
6507

PAYMENT CARD CERTIFICATE ISSUING

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FIG. 65C



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FIG. 66

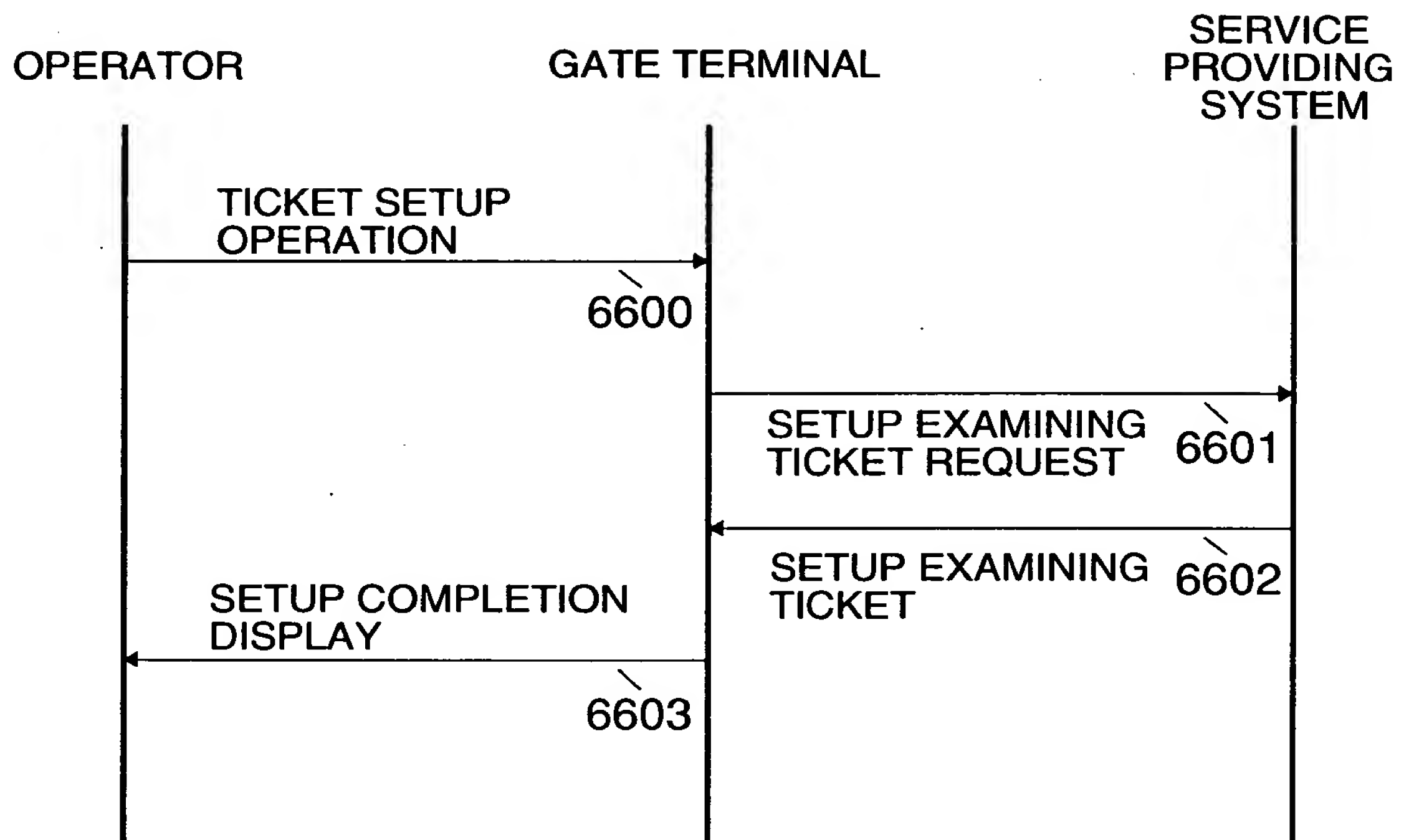




FIG. 67

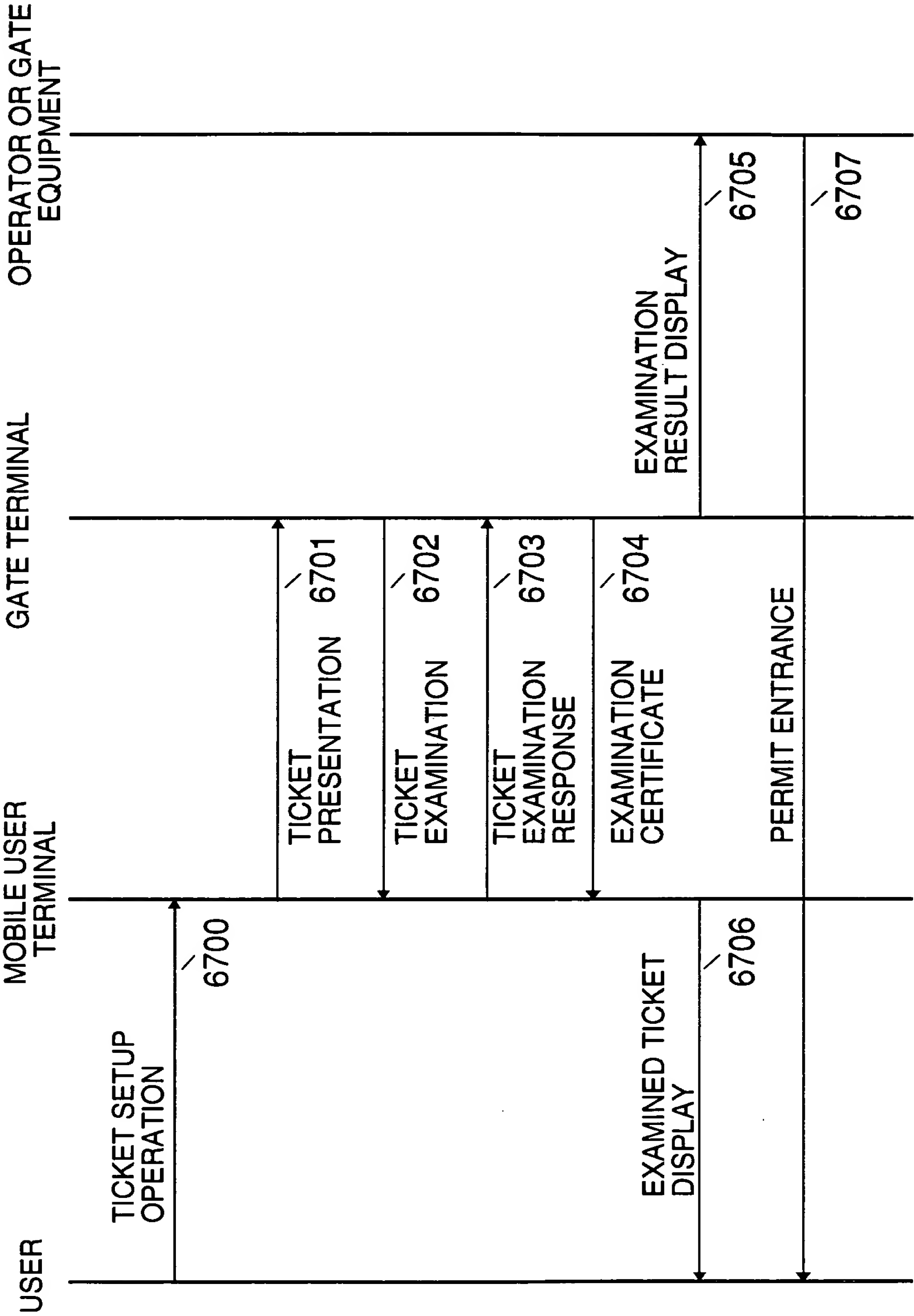
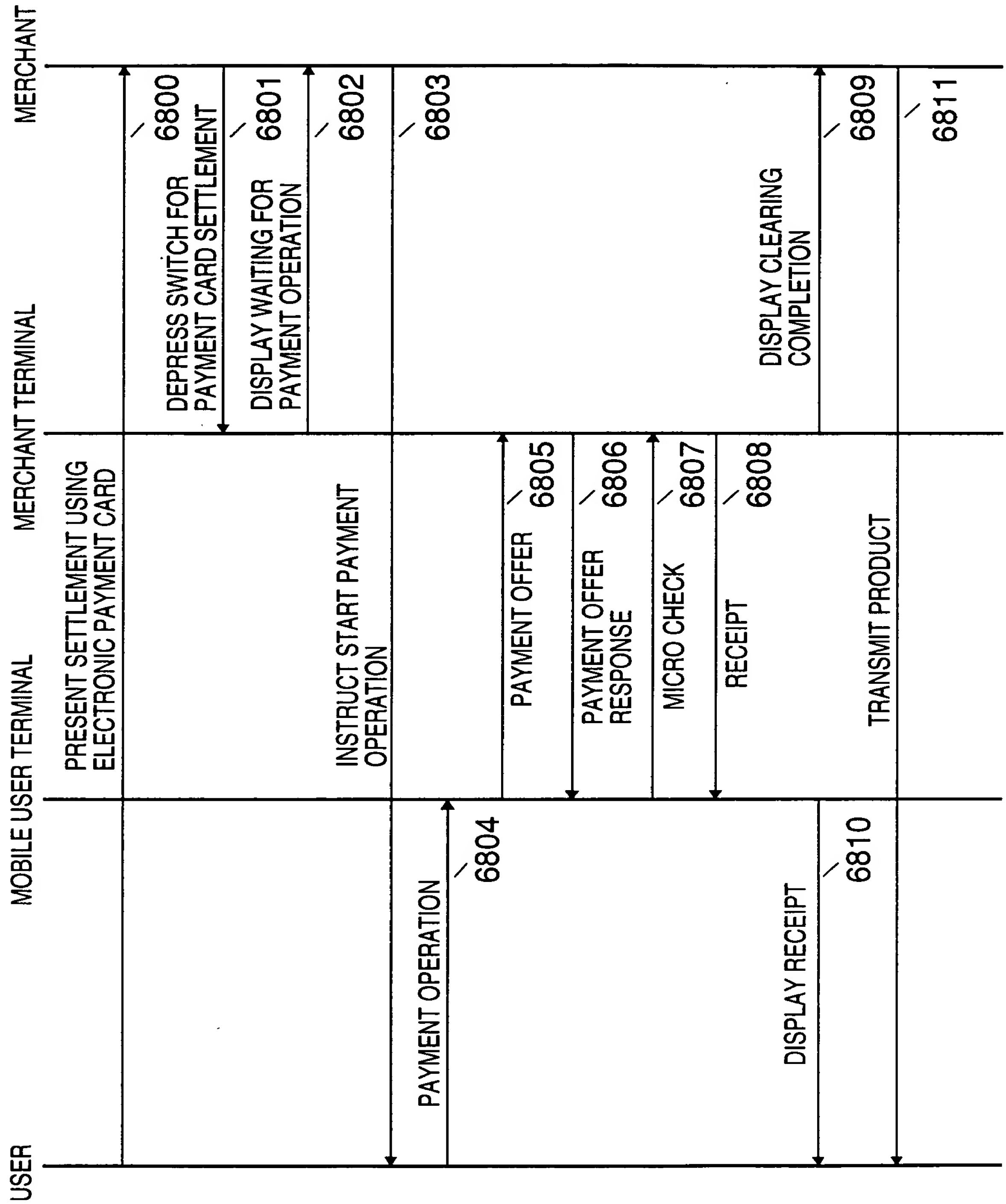


FIG. 68

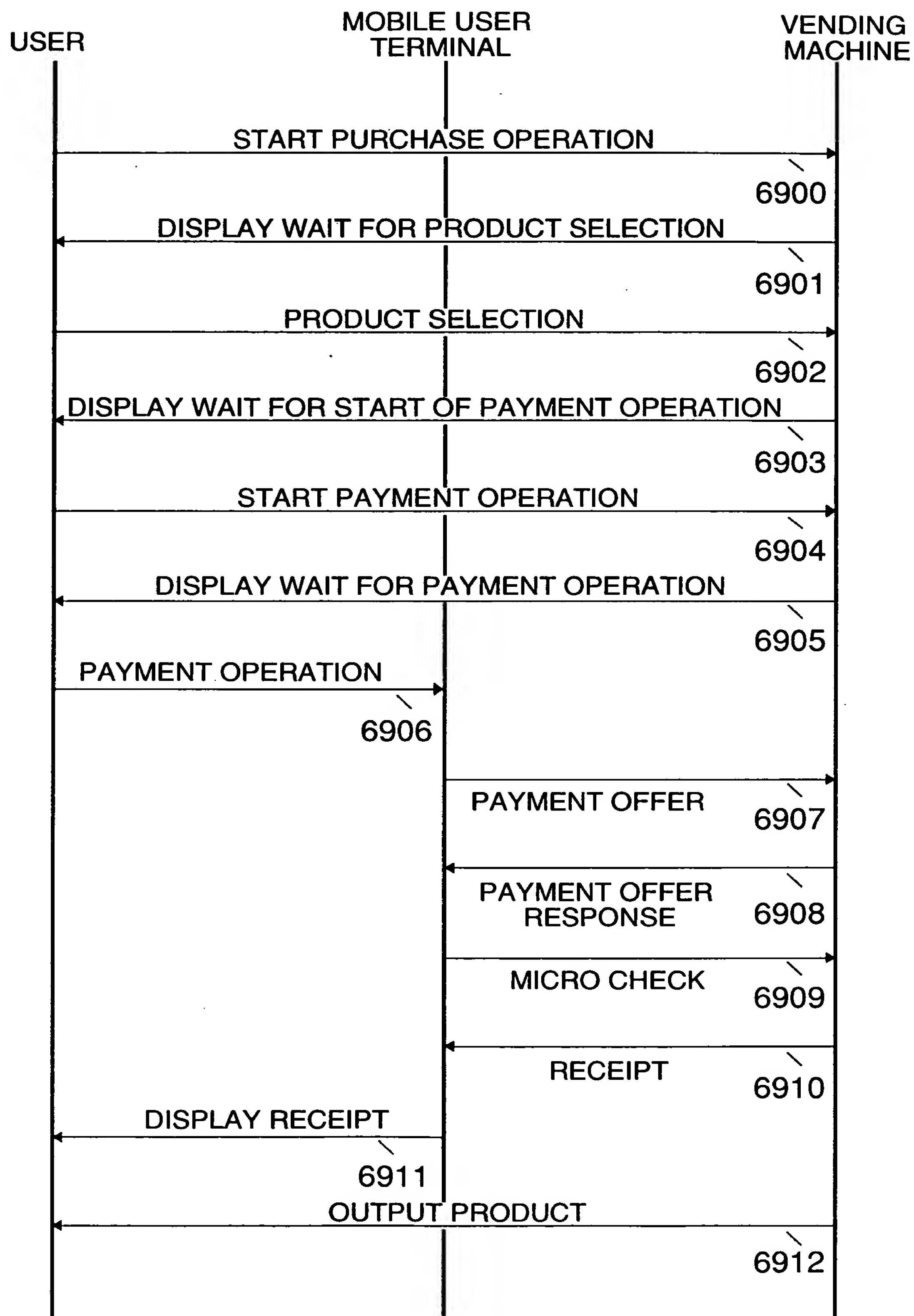


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FIG. 69



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FIG. 70

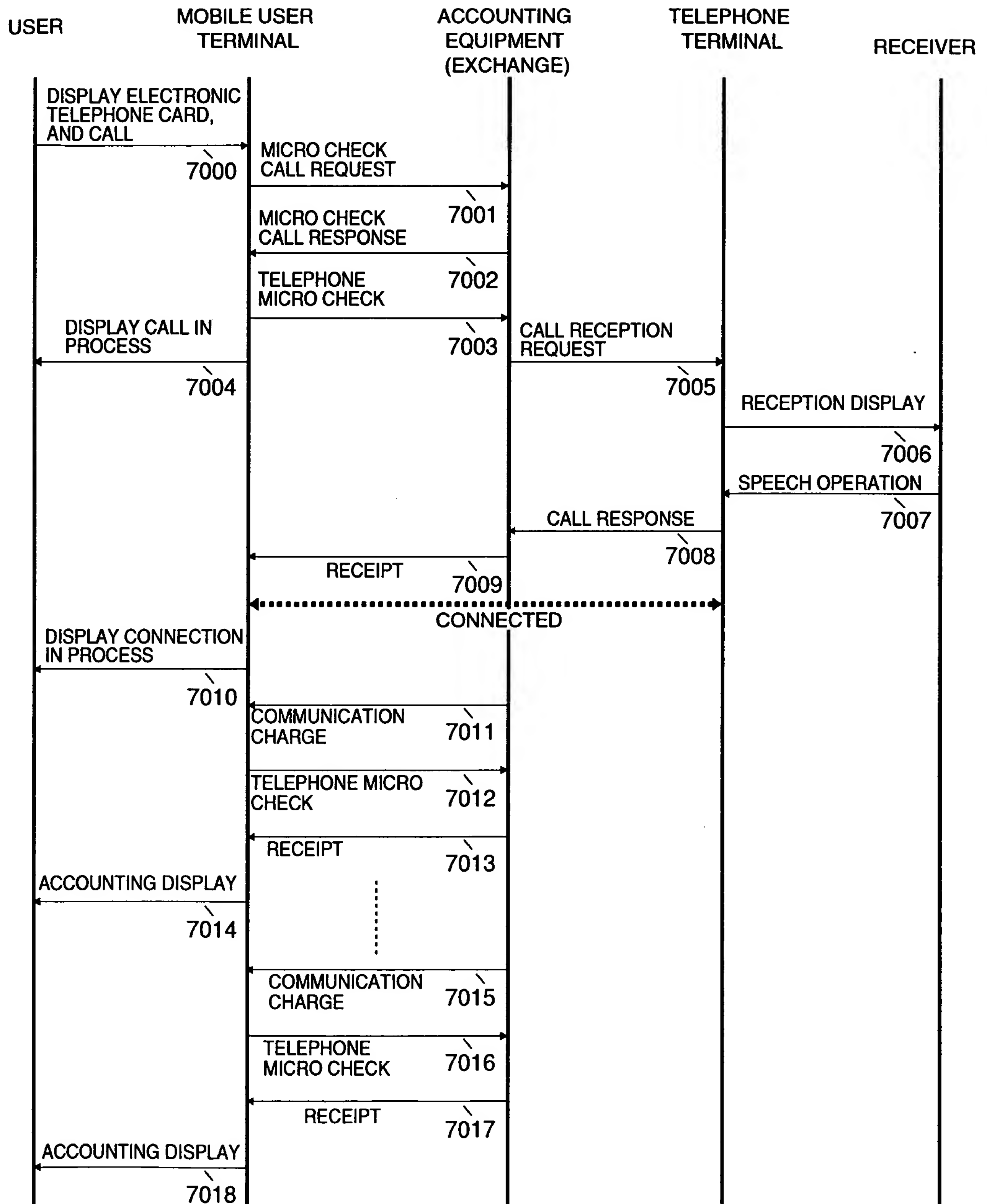
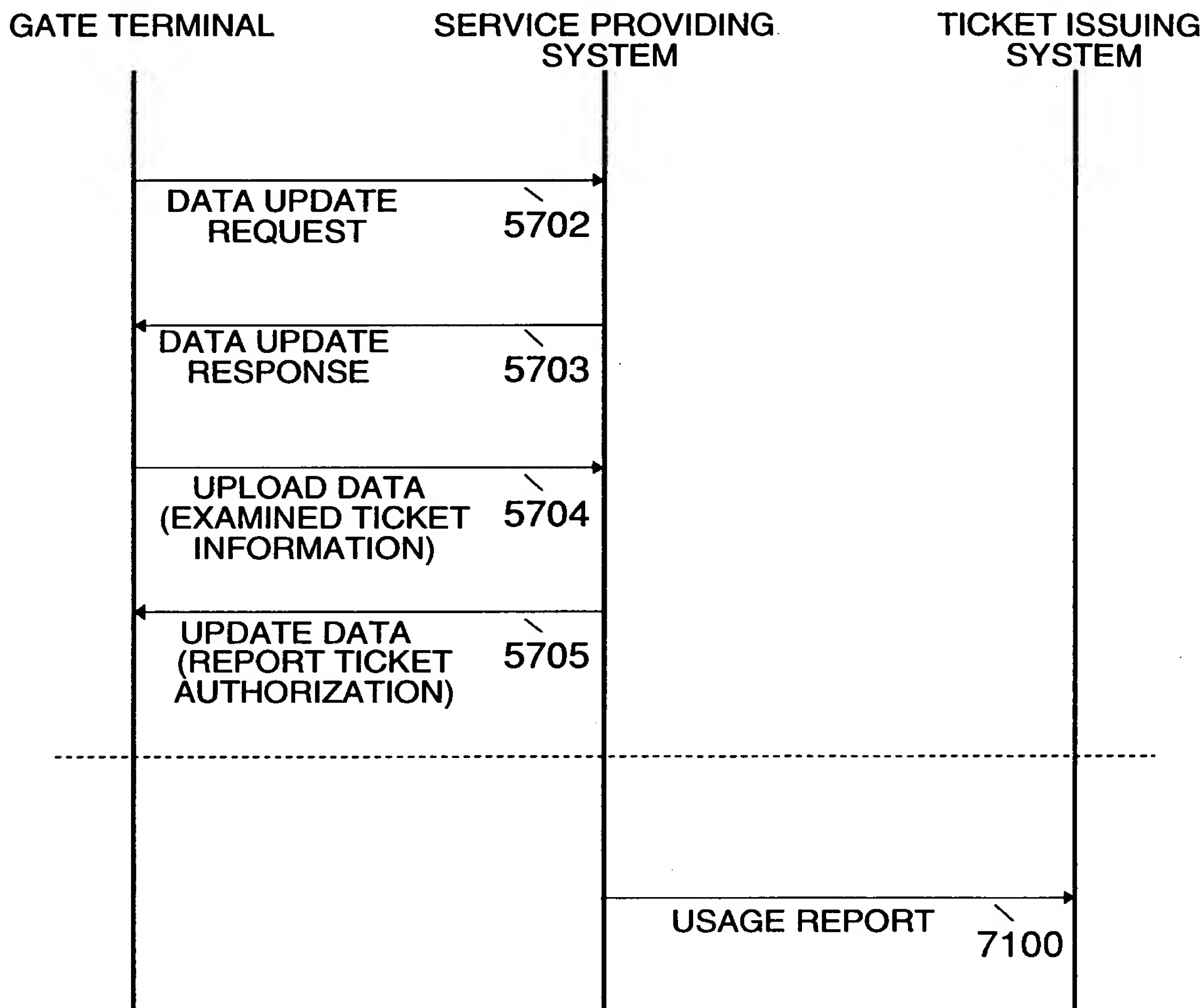


FIG. 71



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FIG. 72

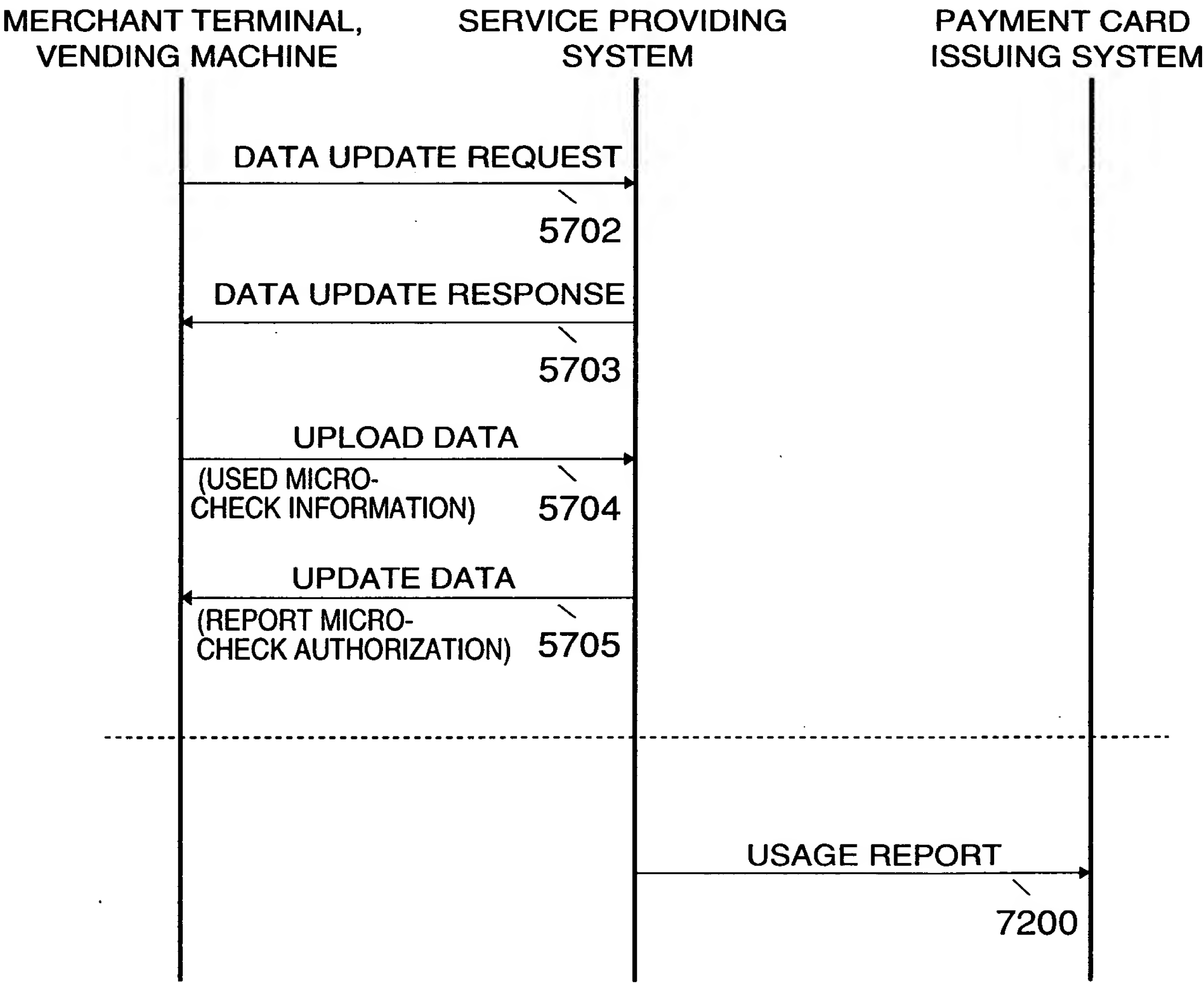


FIG. 72

FIG. 73

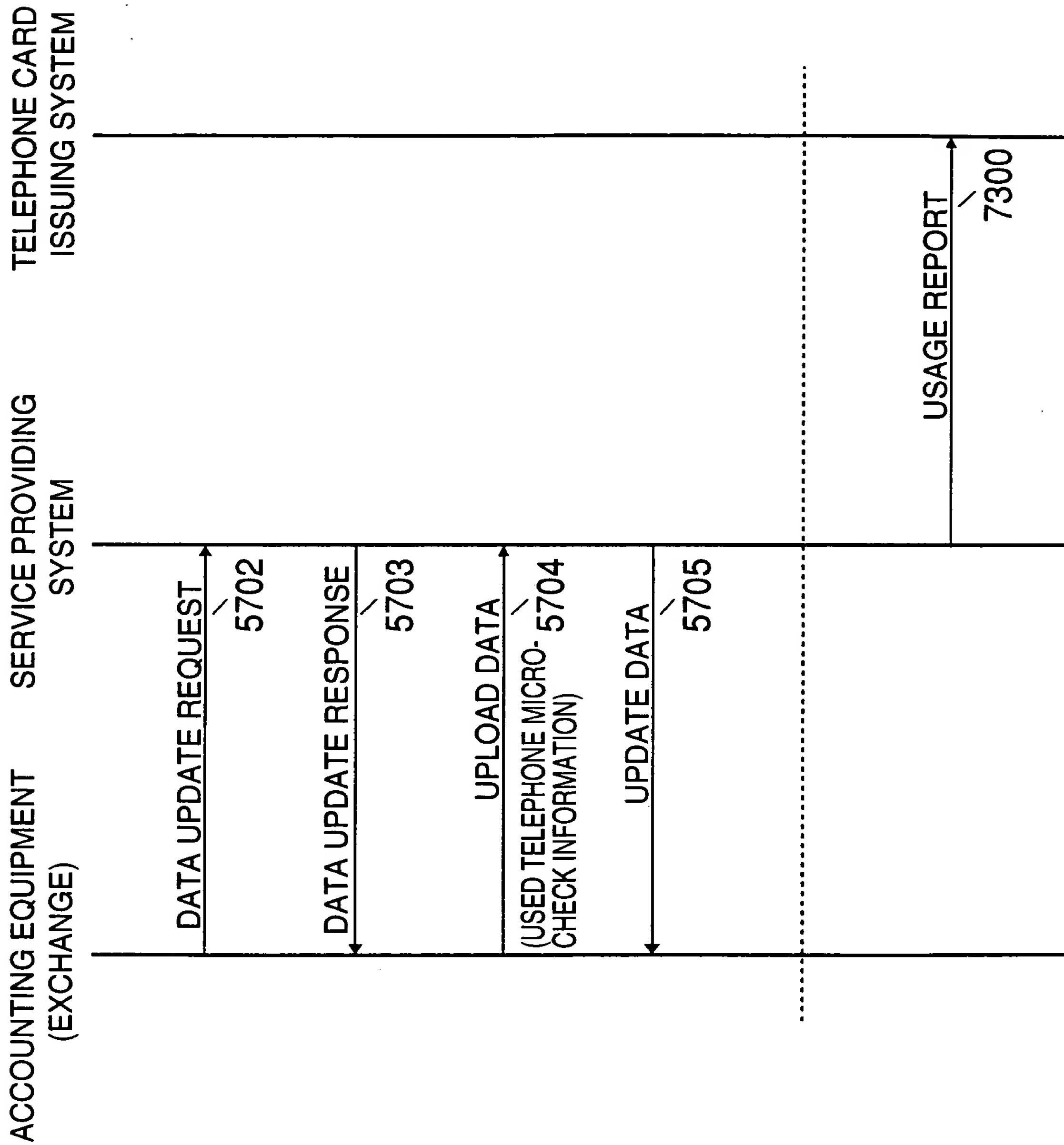
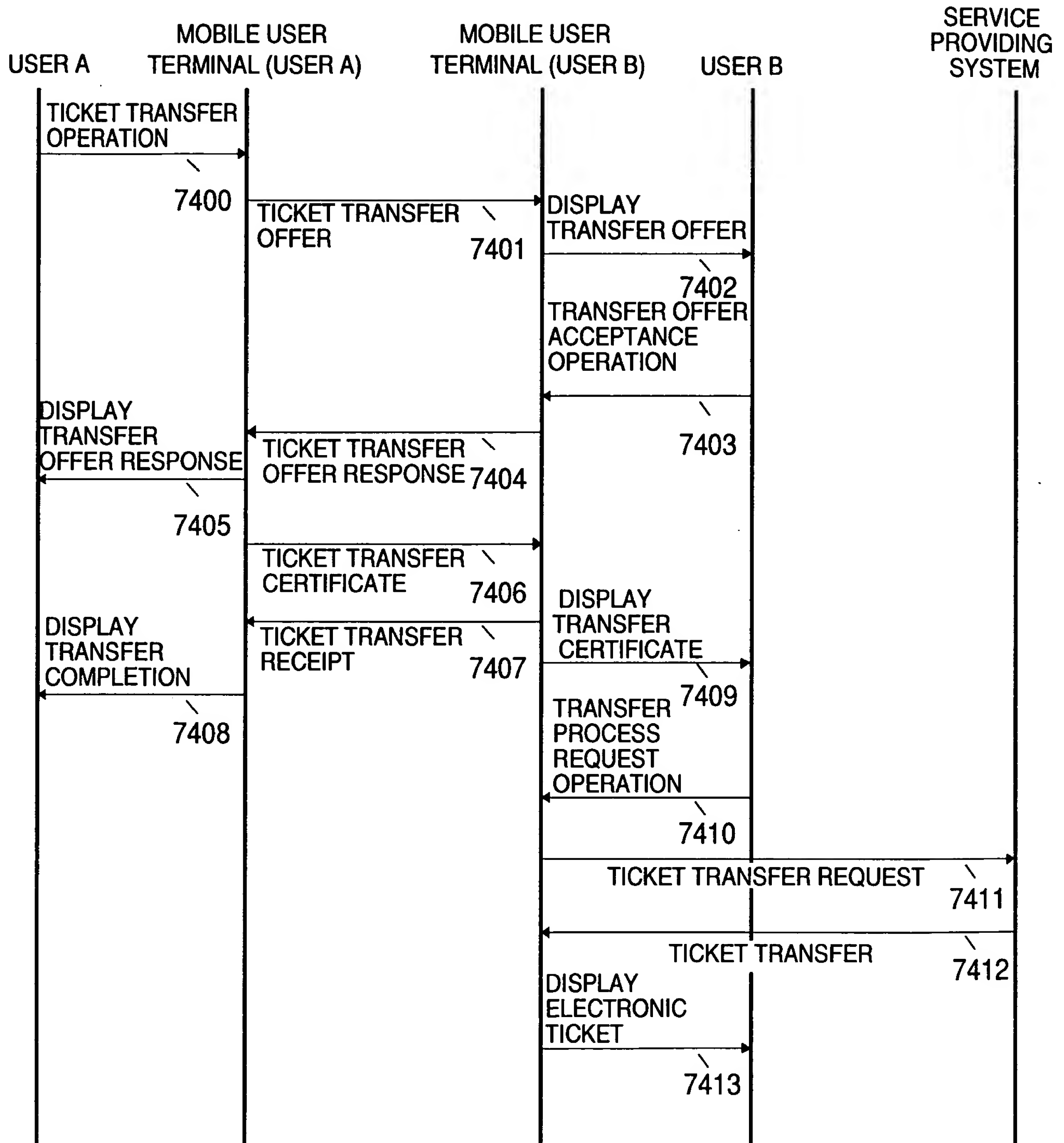


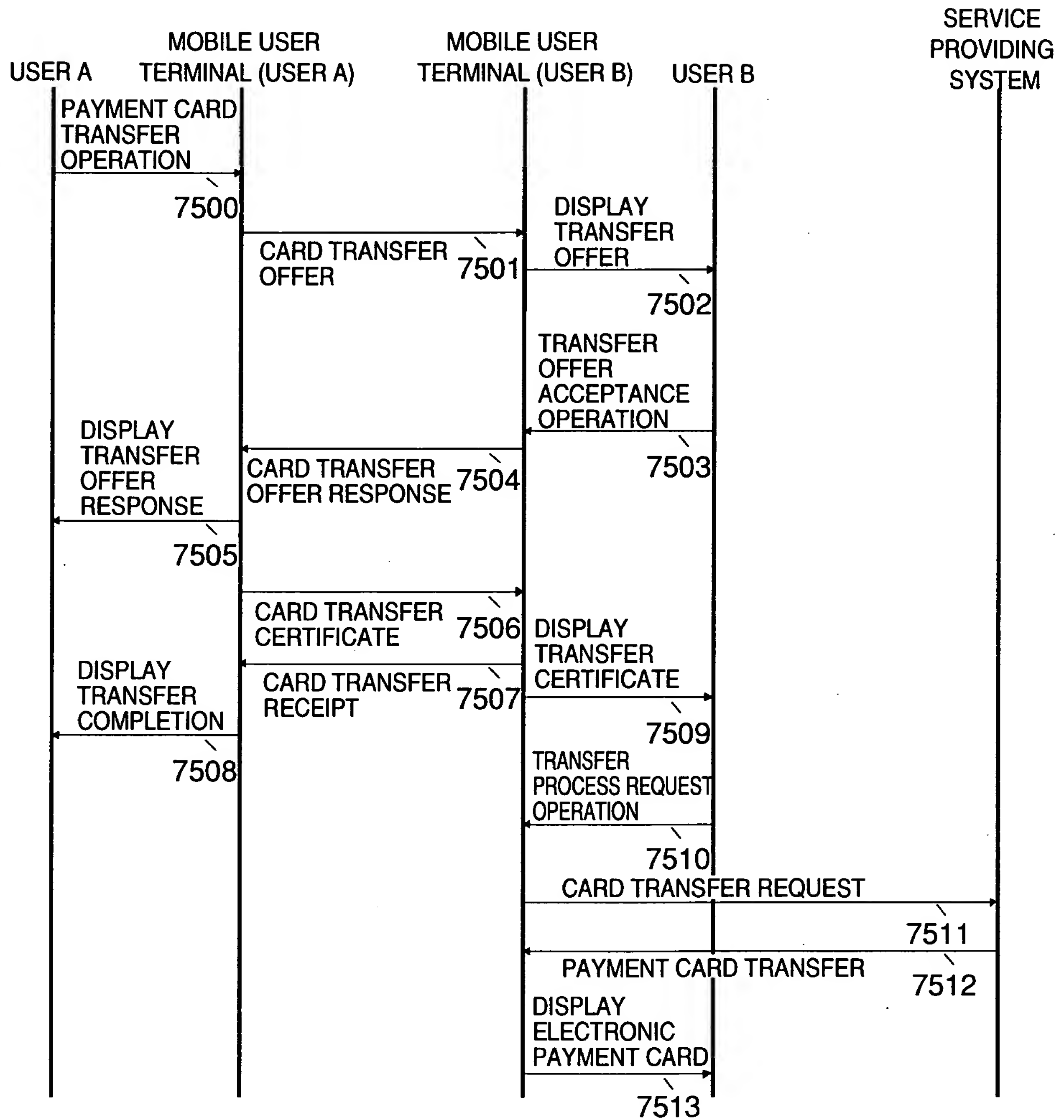
FIG. 74





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FIG. 75



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FIG. 76

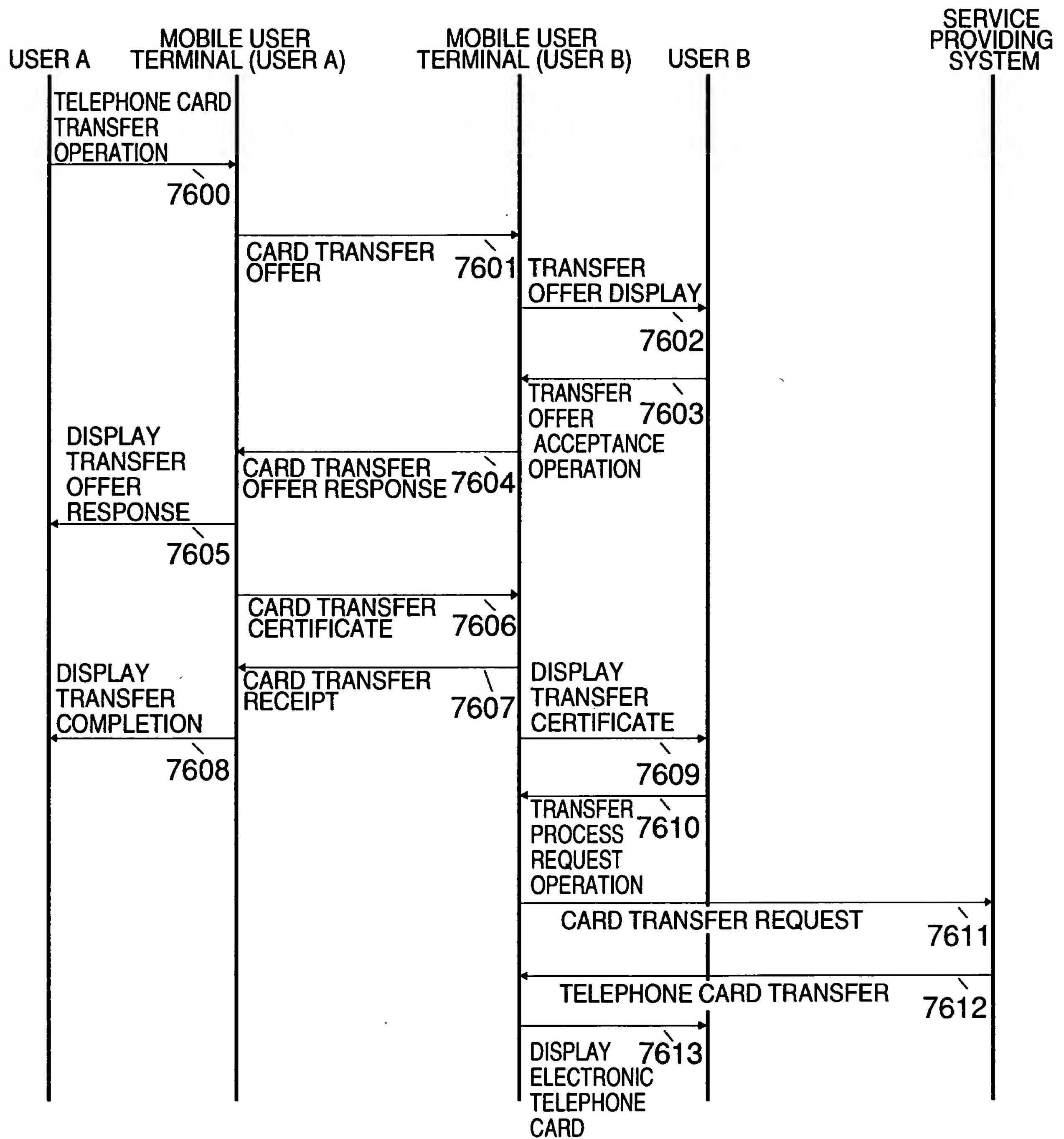


FIG. 77

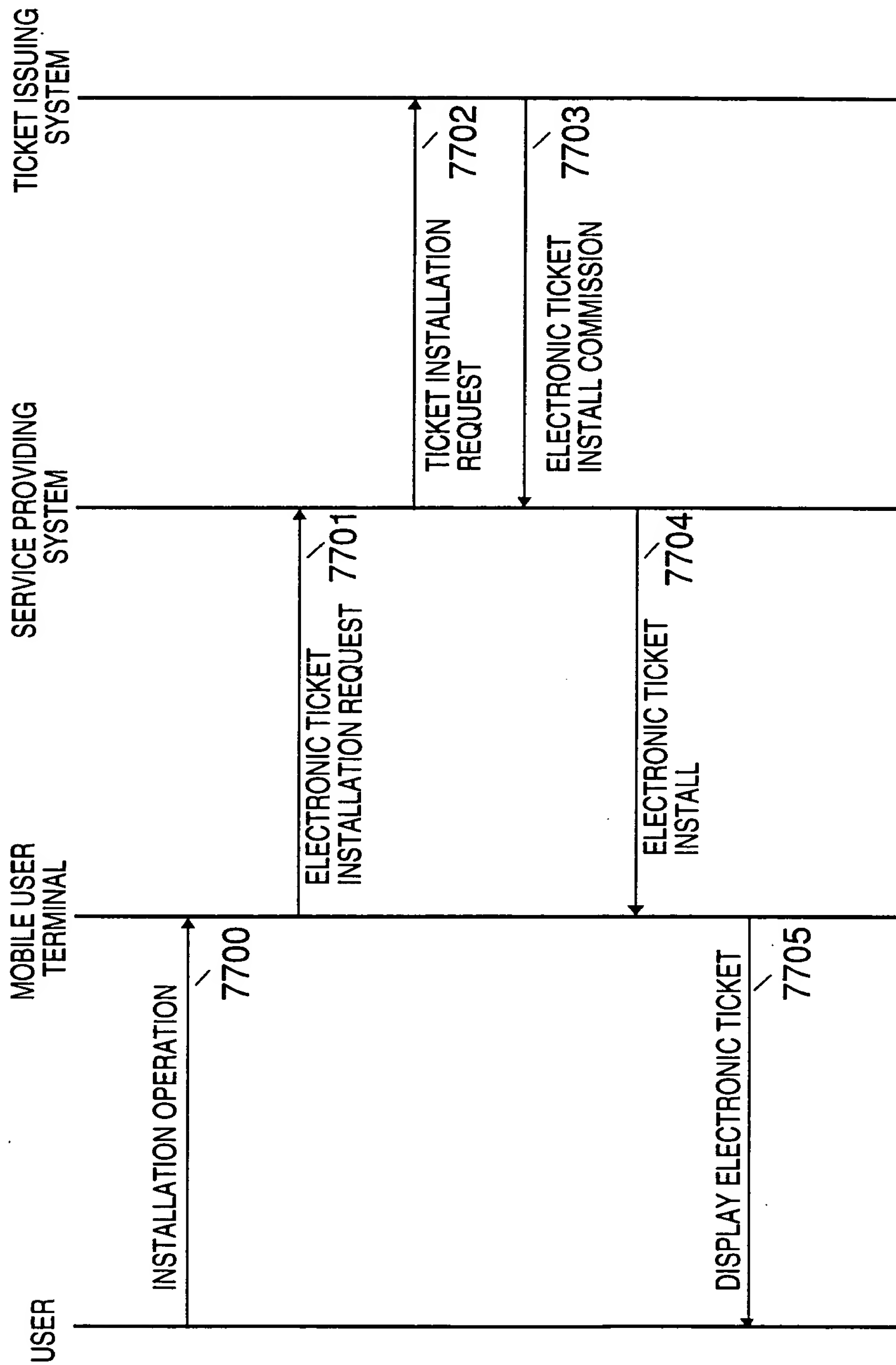


FIG. 78

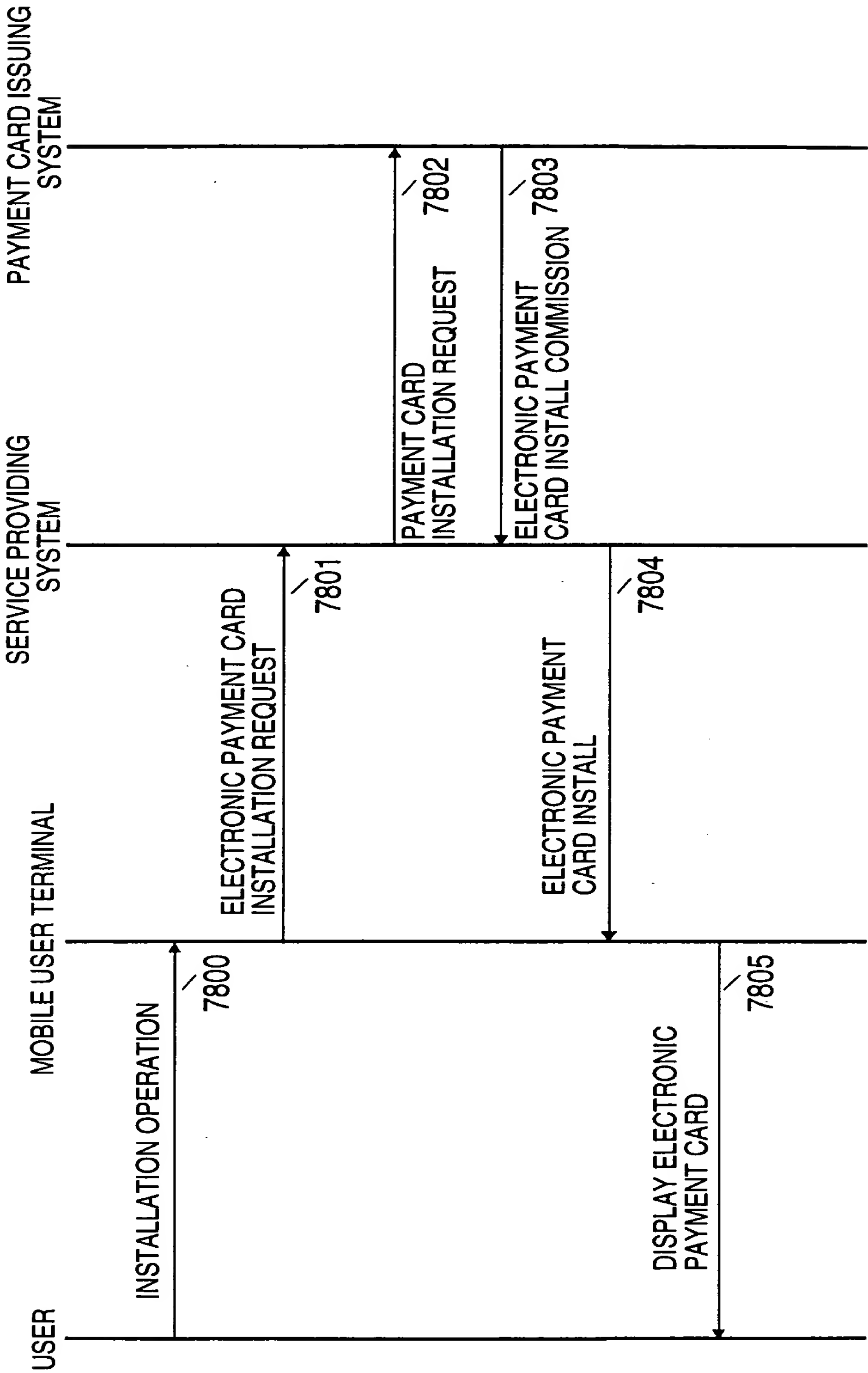


FIG. 79

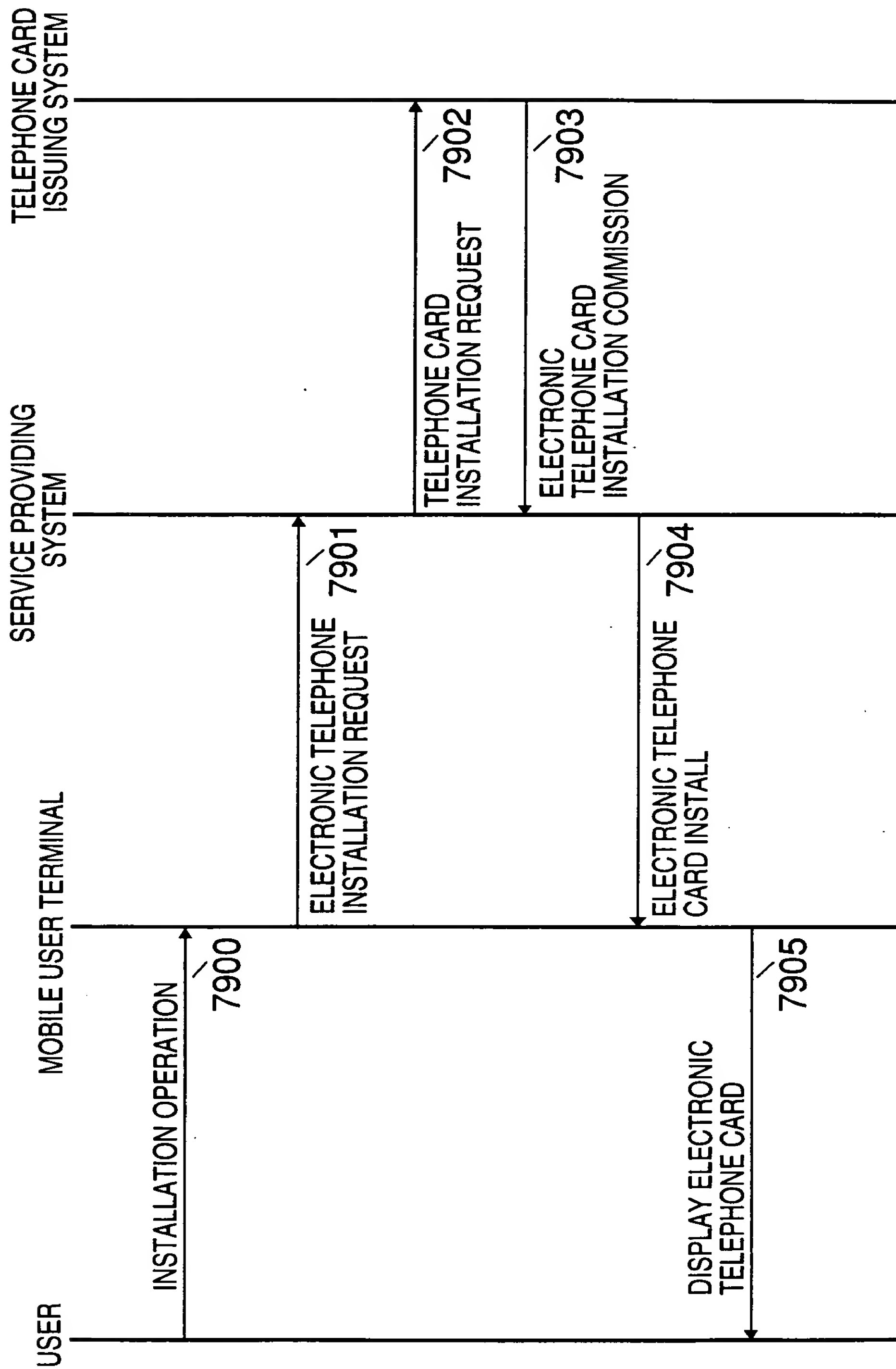
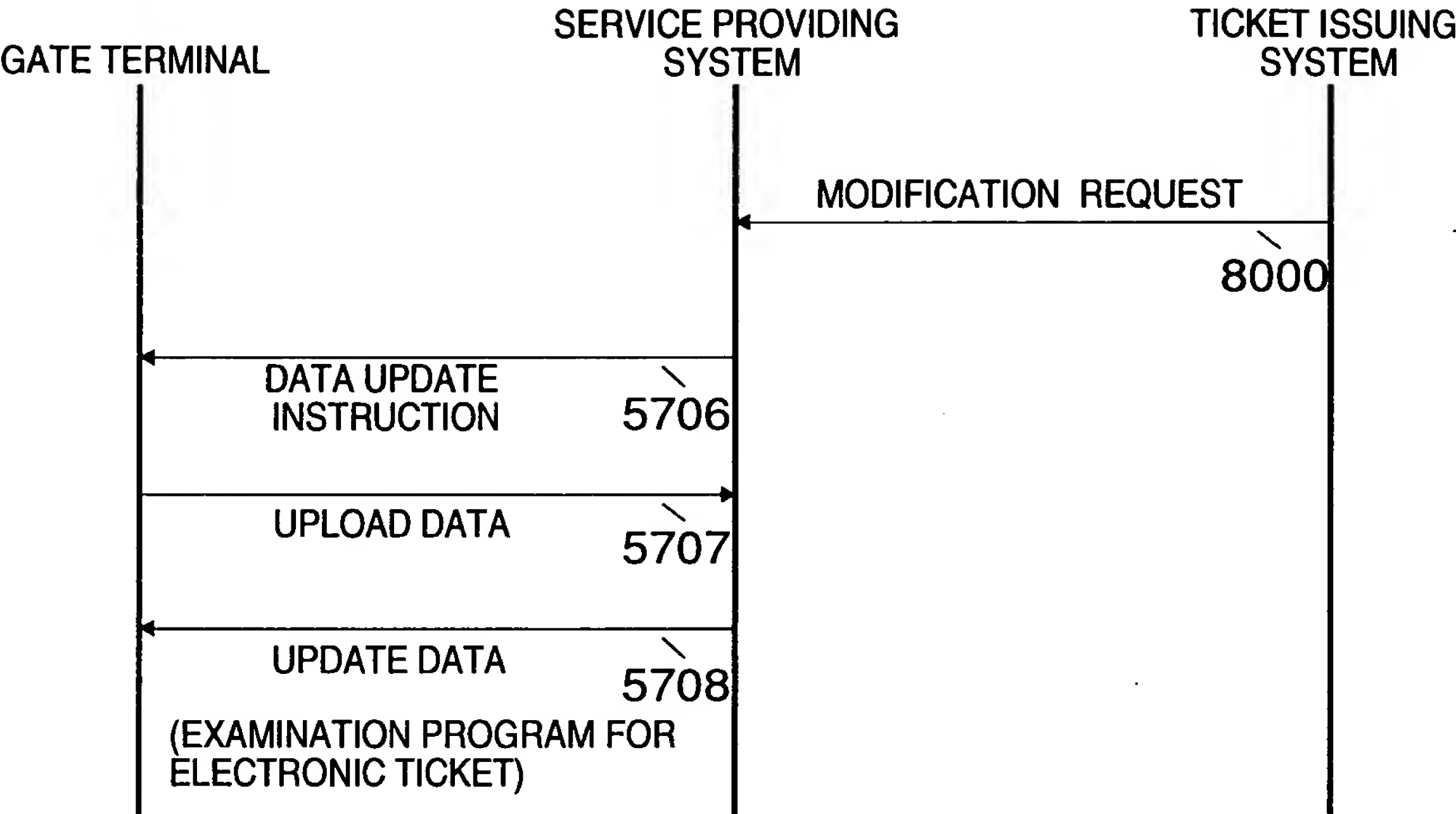
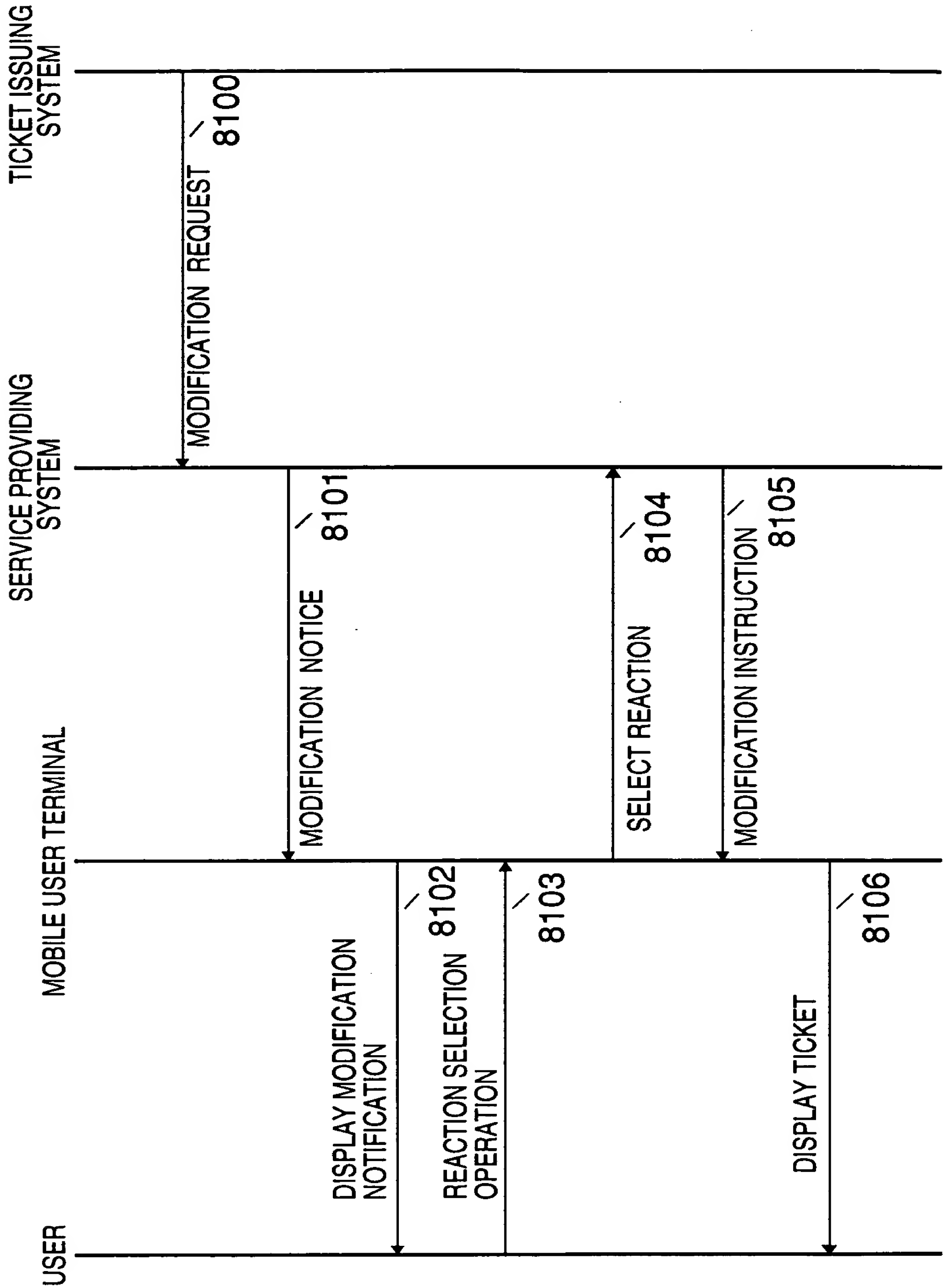


FIG. 80



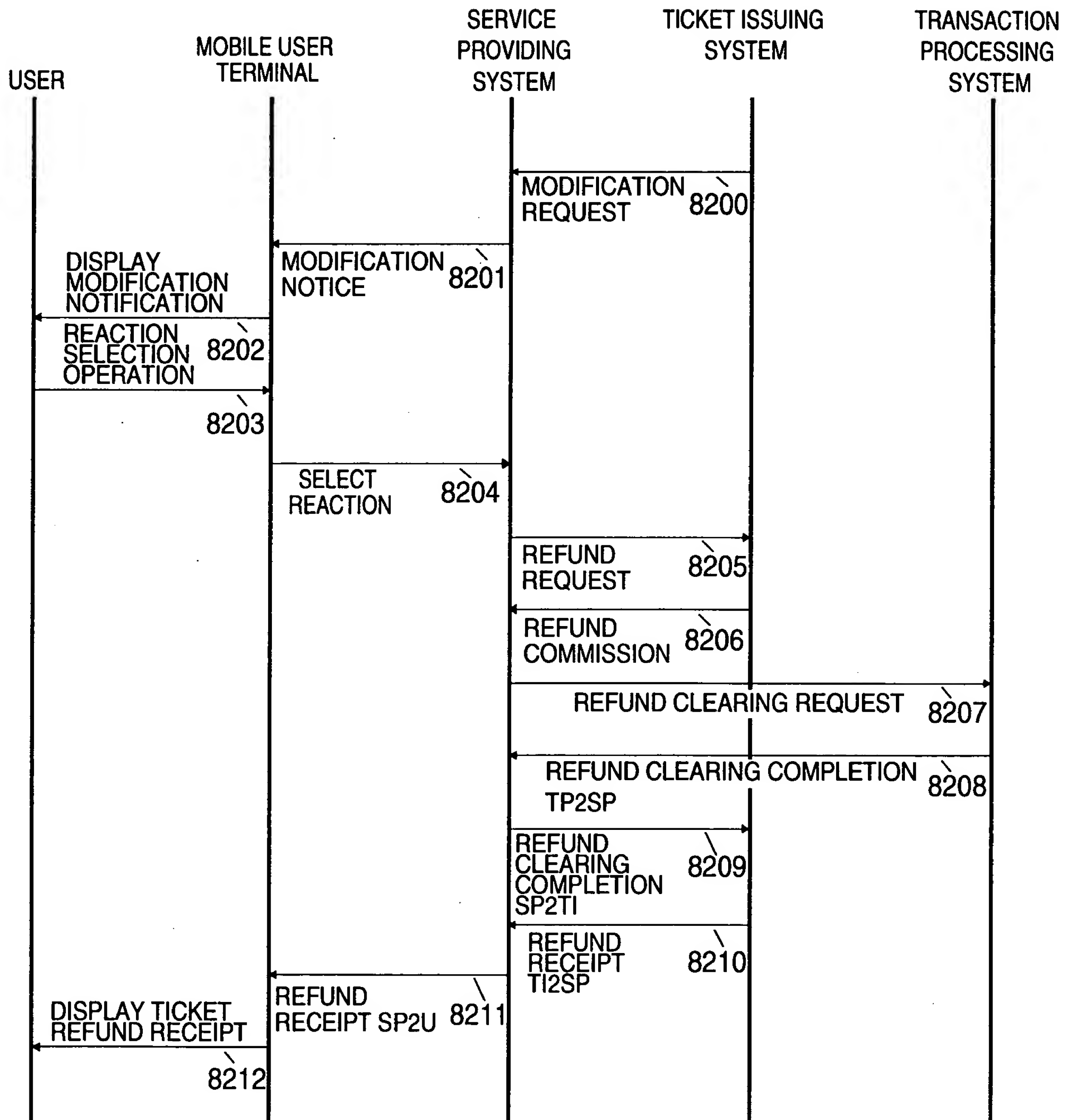
ACCEPTED FOR DEPOSIT

FIG. 81



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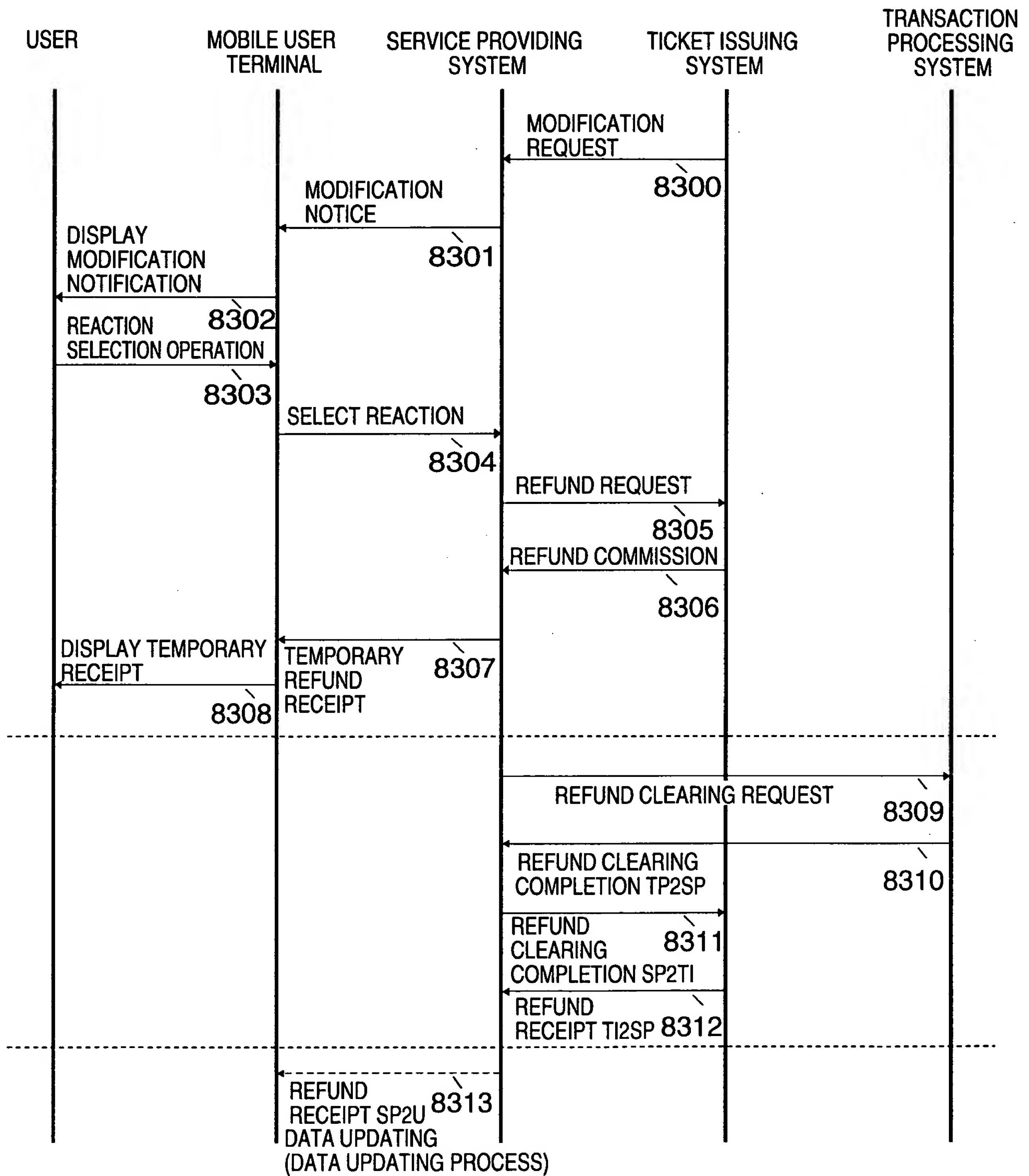
FIG. 82





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FIG. 83



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FIG. 84

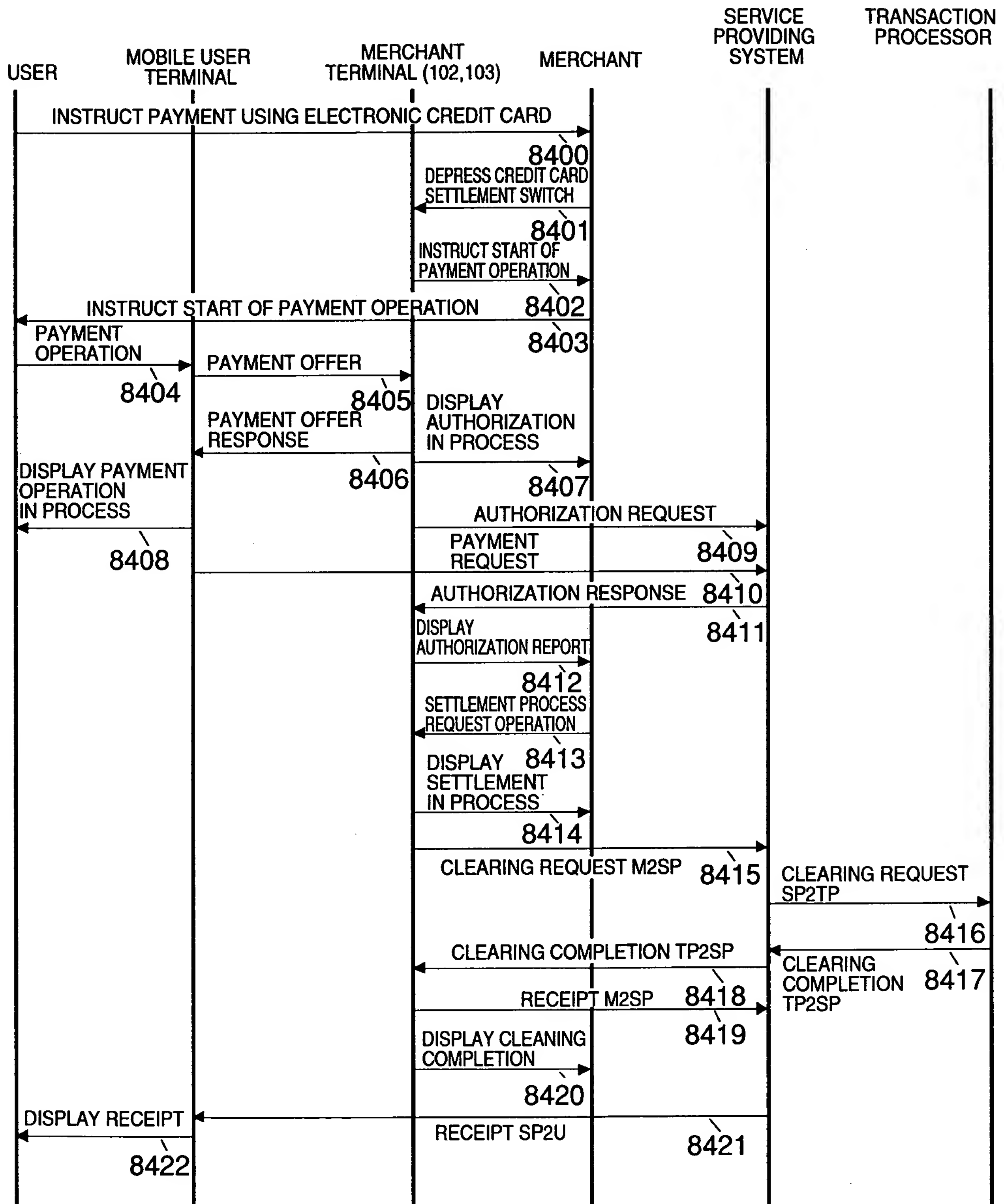


FIG.85A

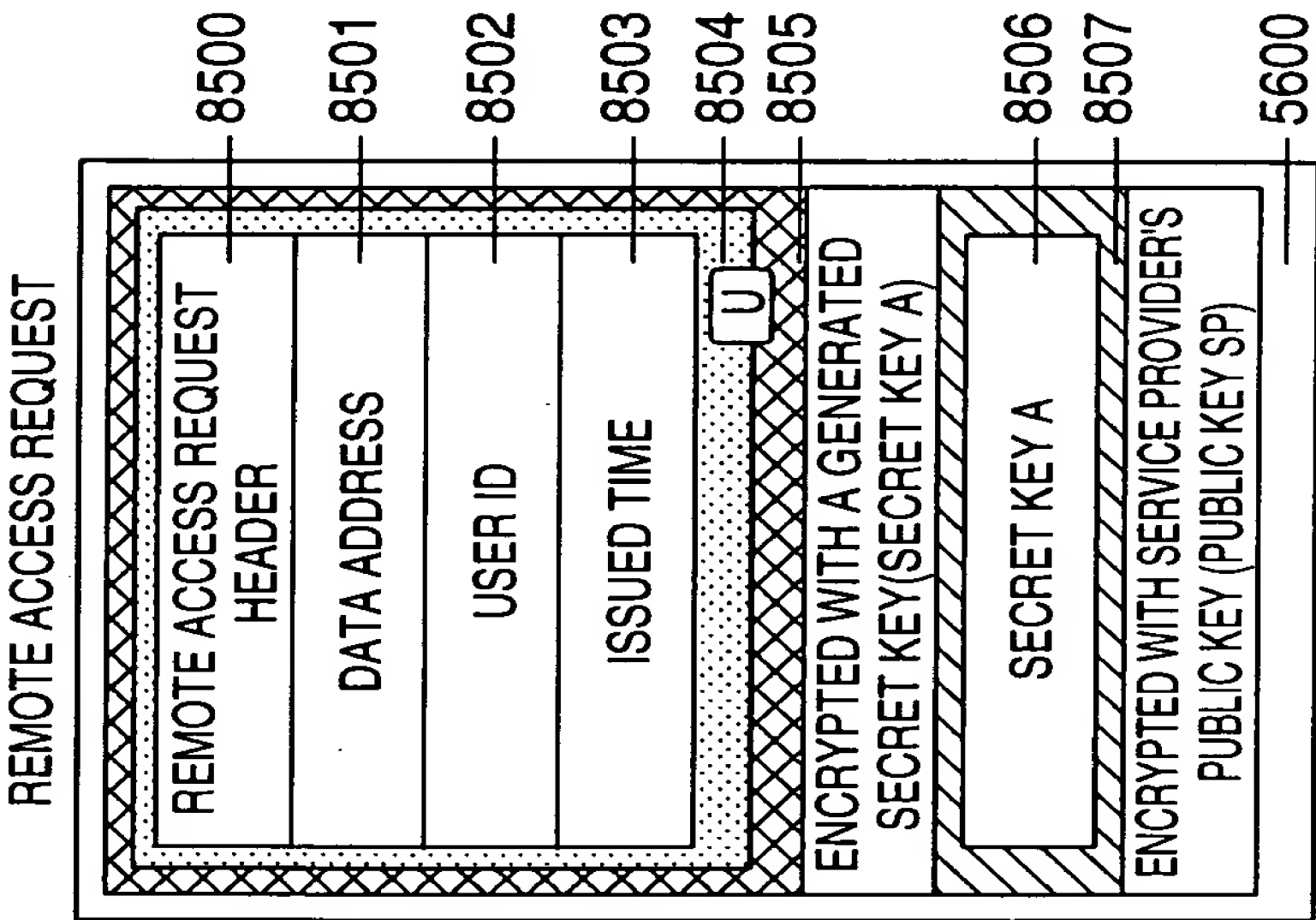


FIG.85B

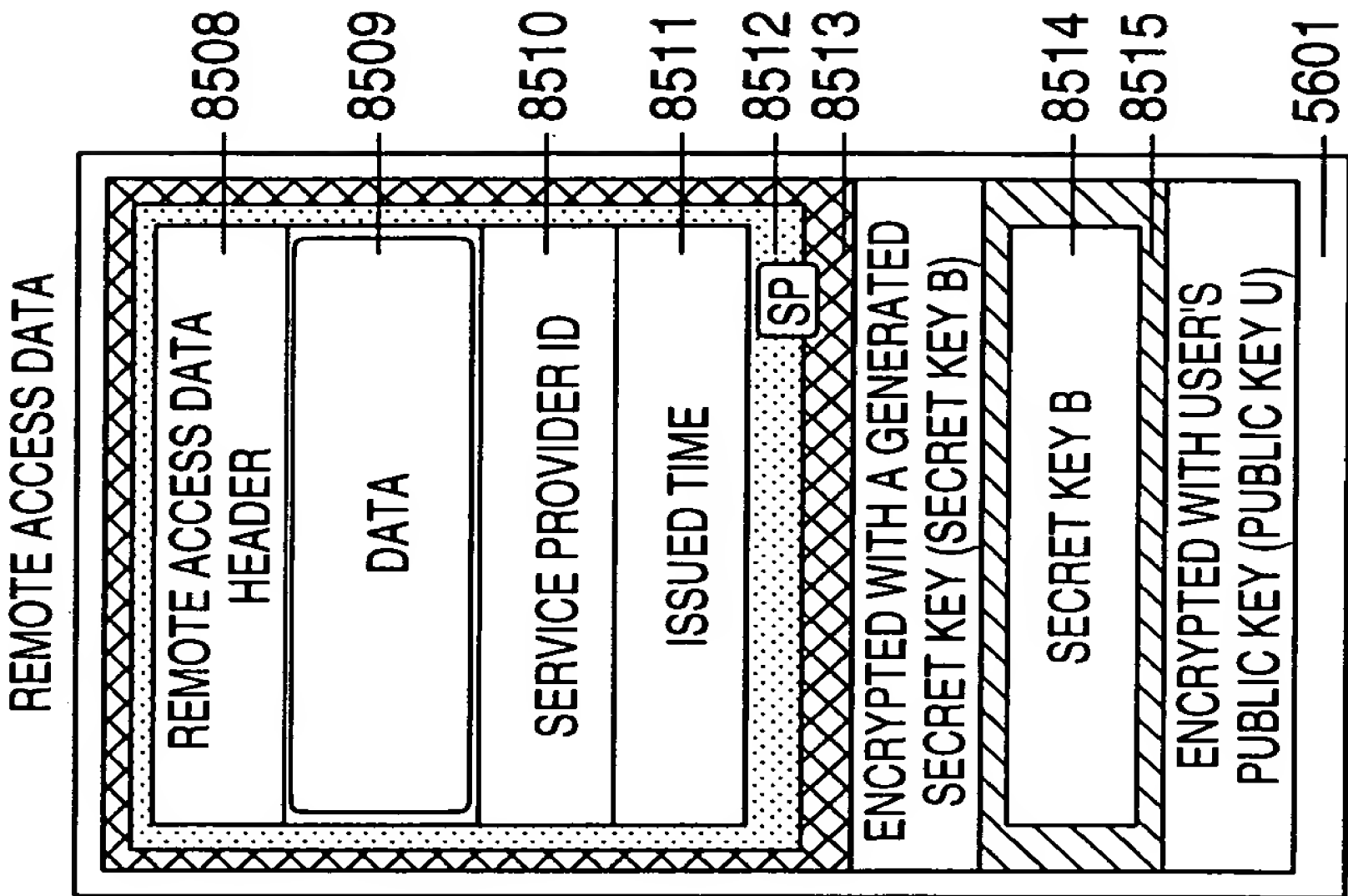


FIG.86A

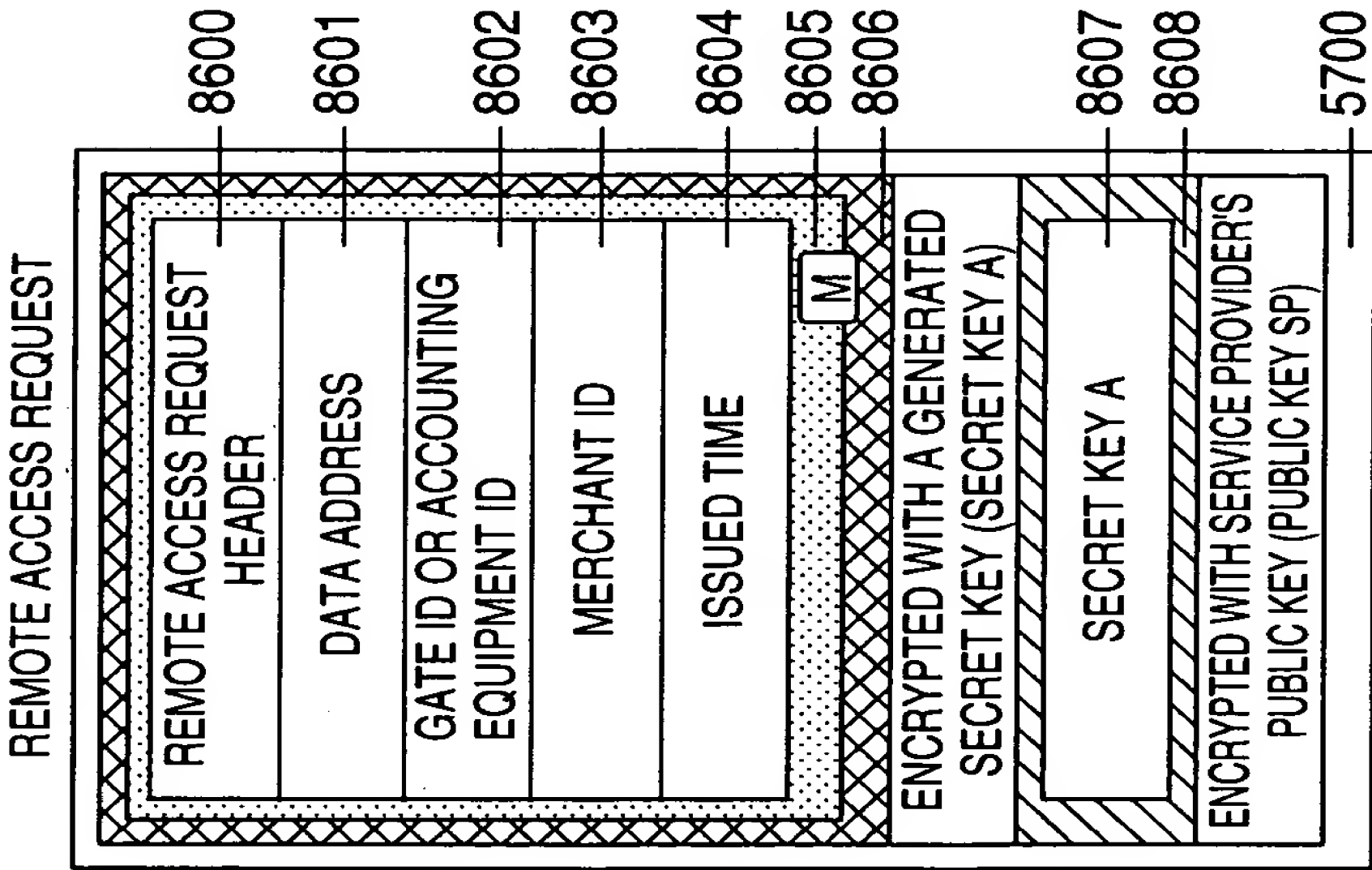


FIG.86B

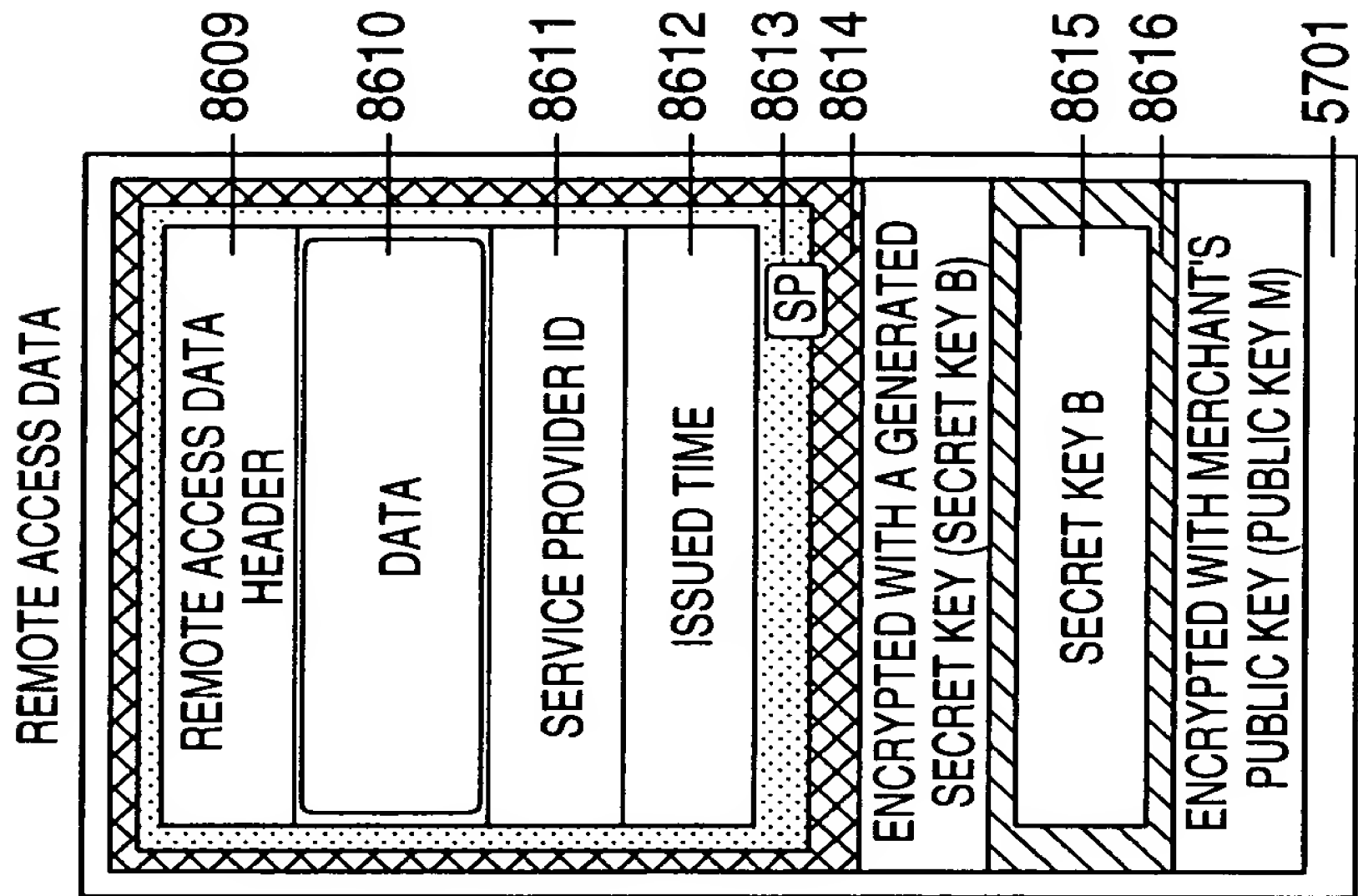


FIG.87A

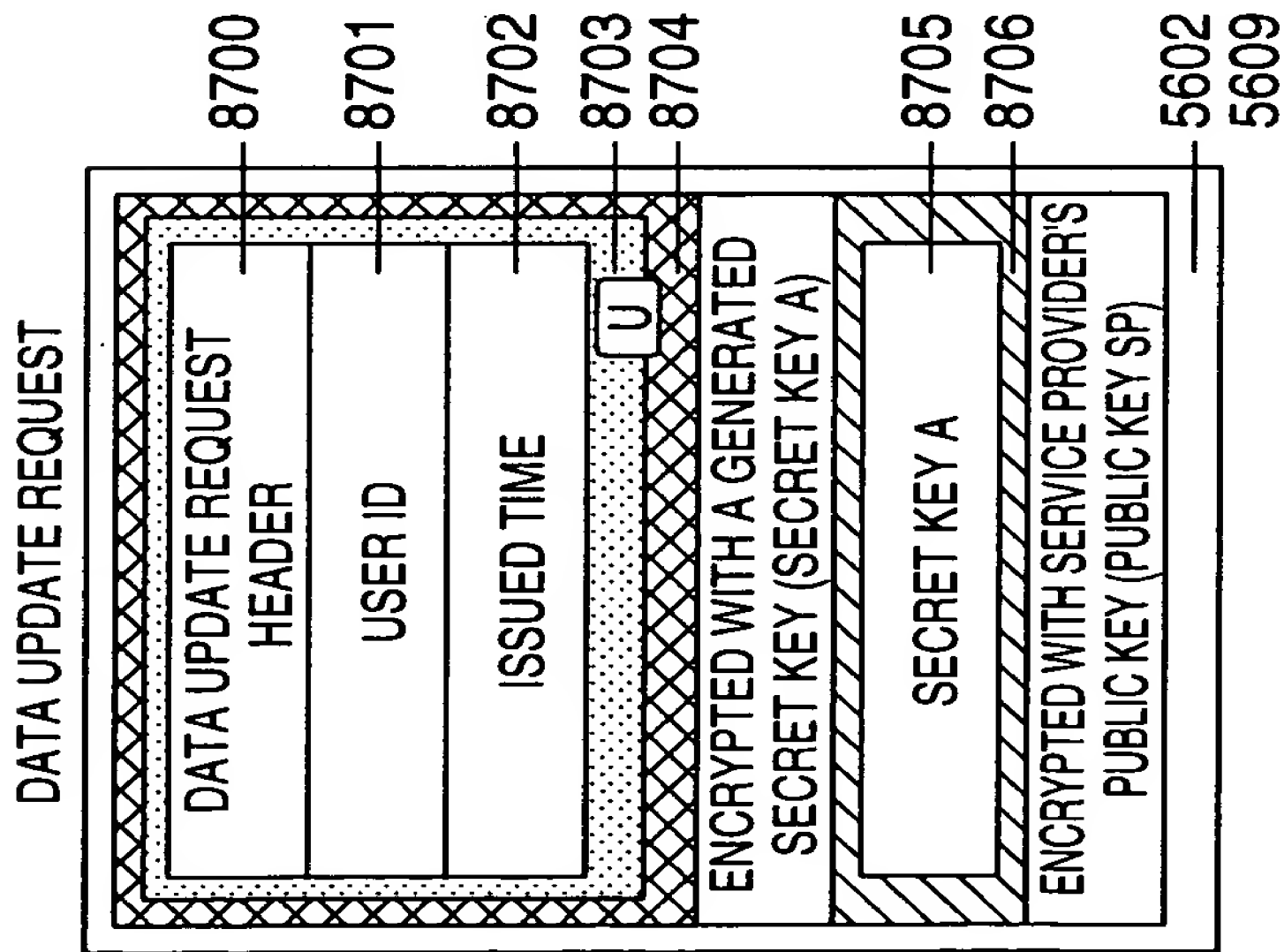


FIG.87B

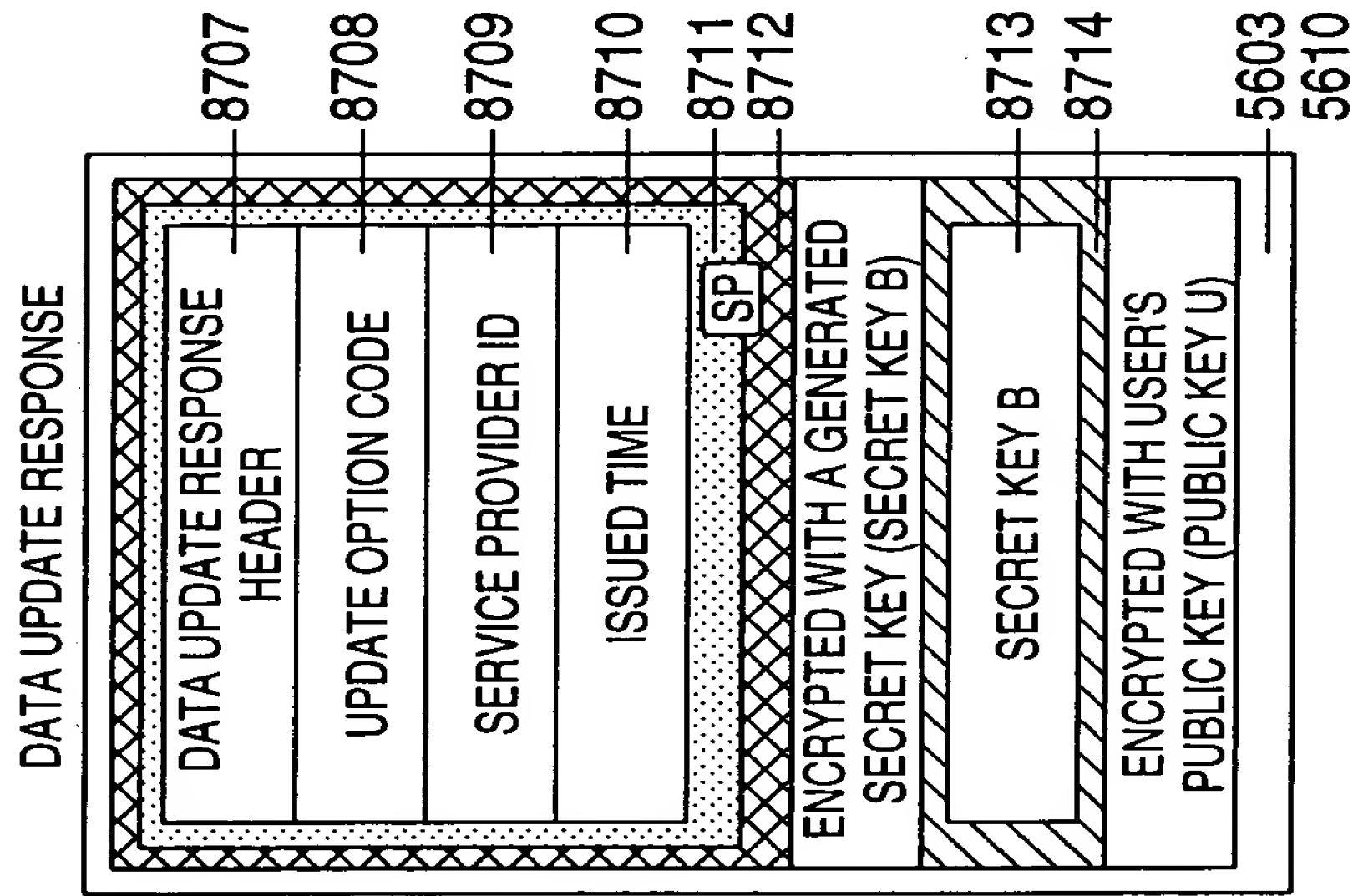


FIG.87C

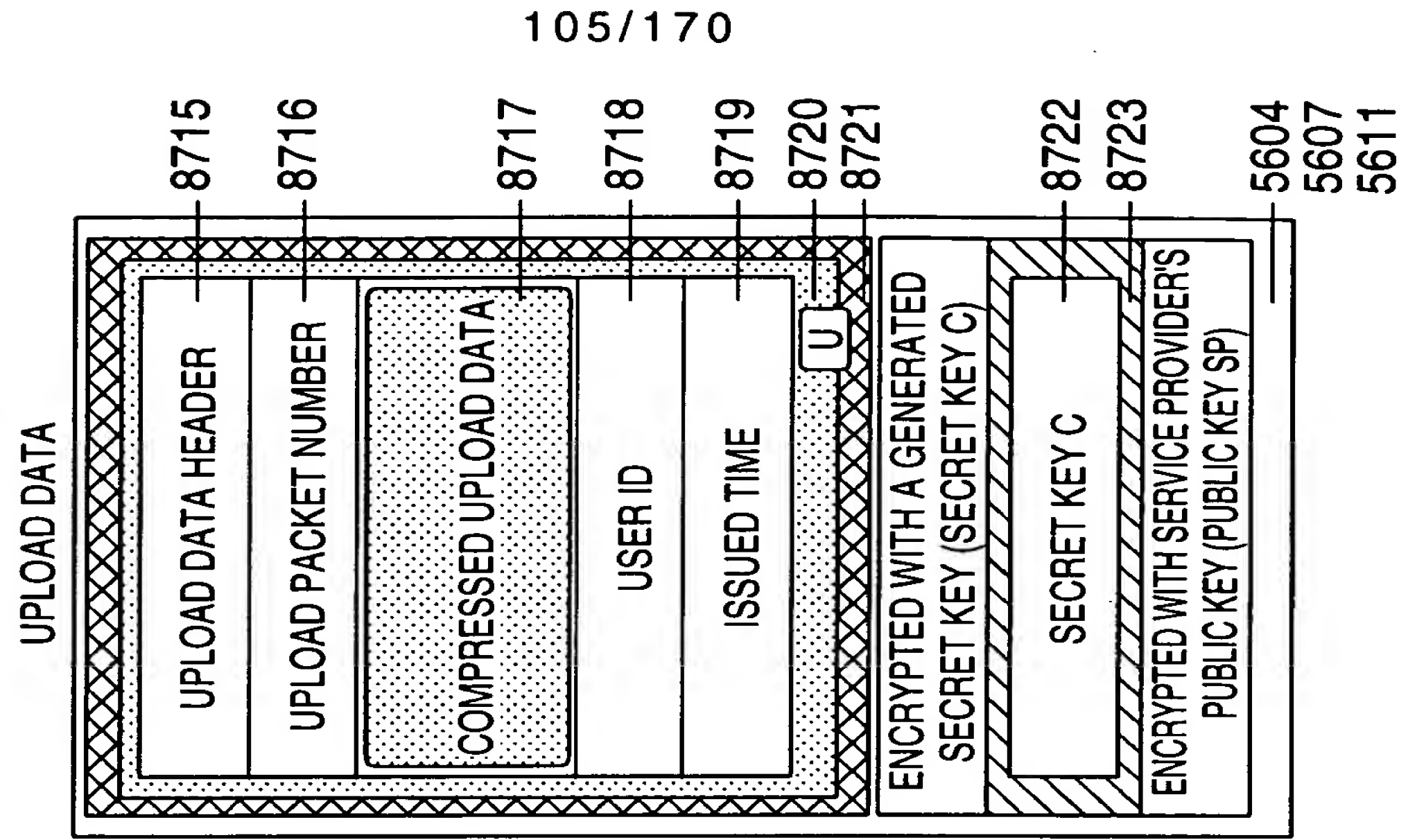


FIG.87D

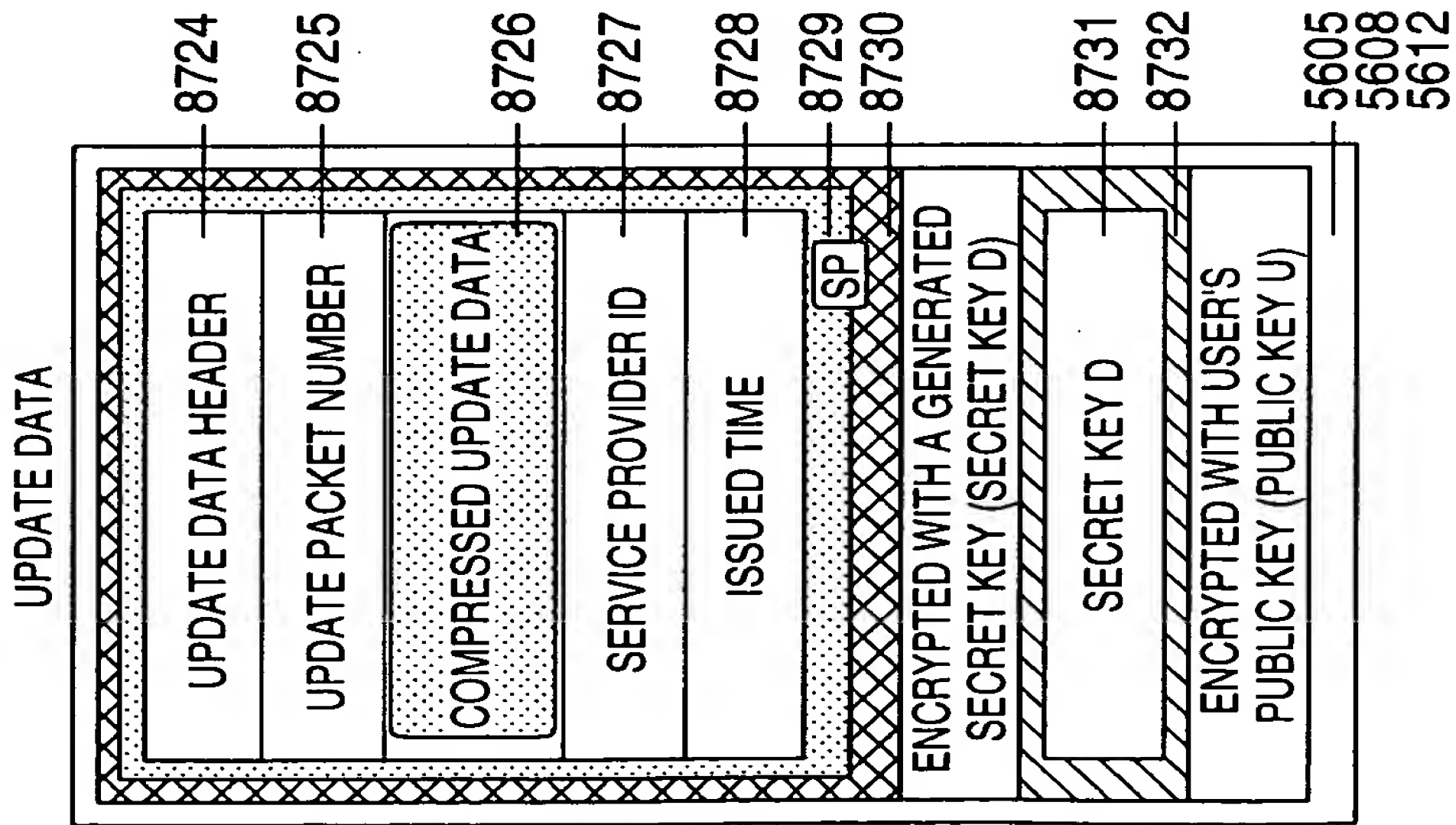


FIG.87E

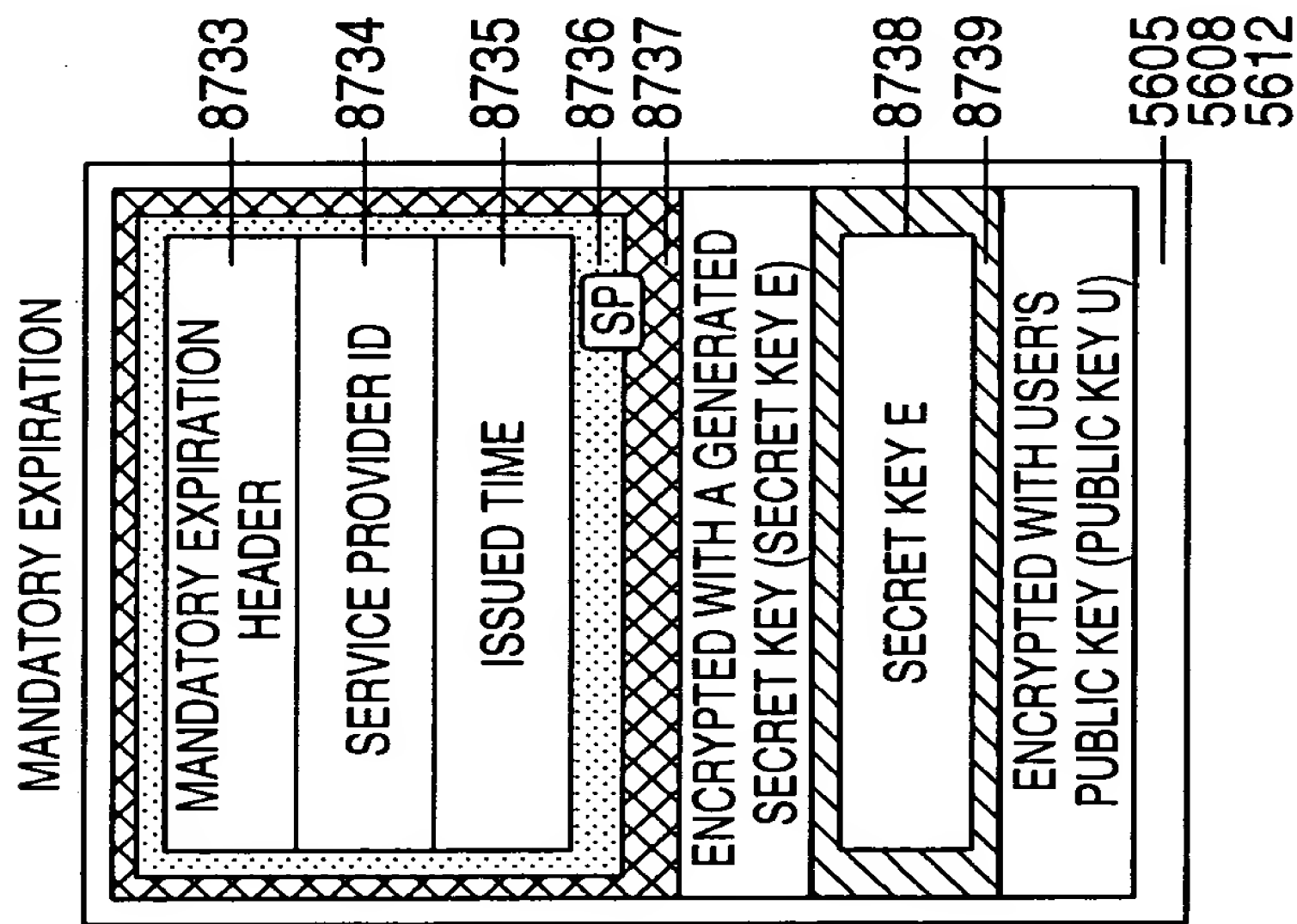


FIG.87F

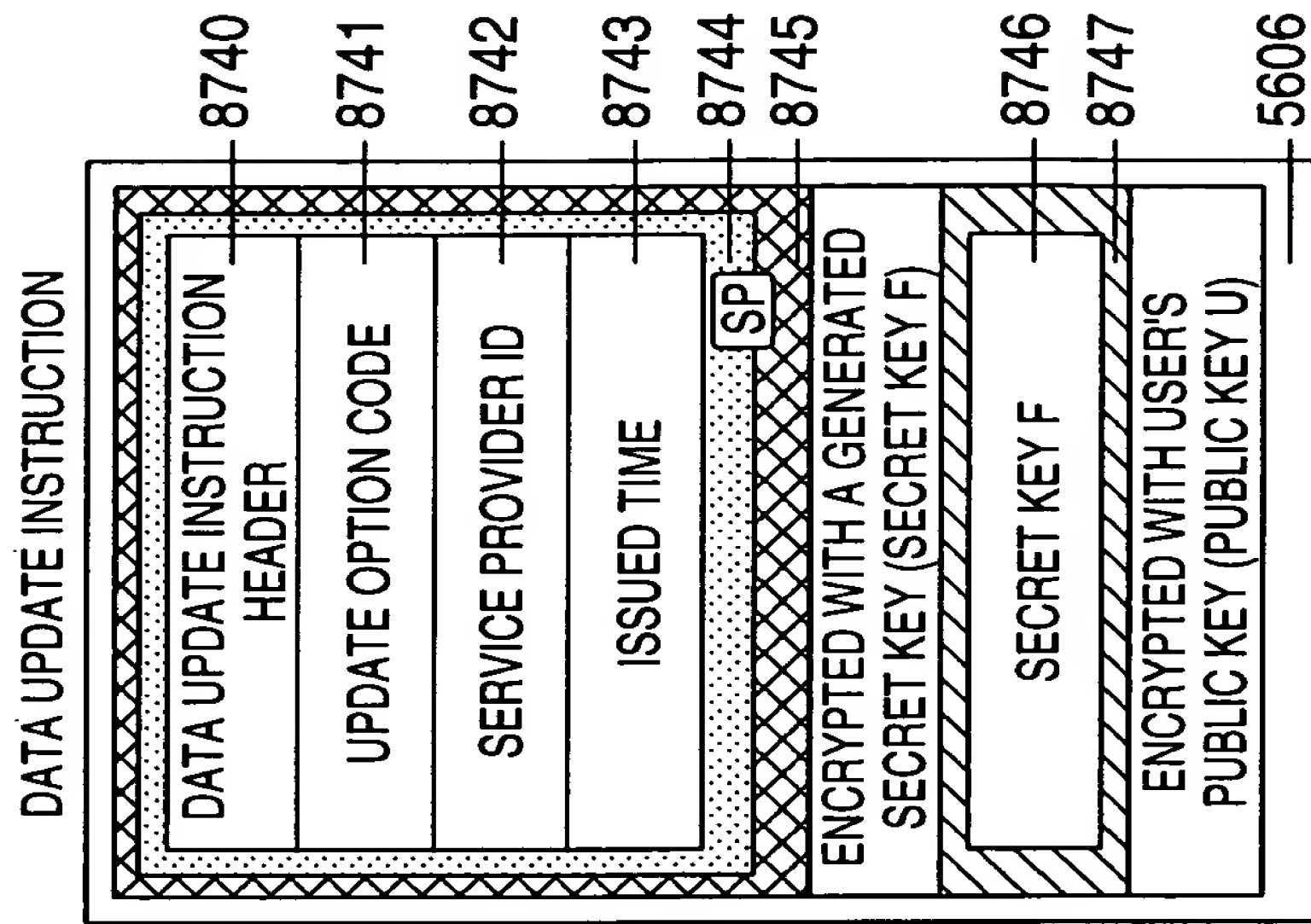




FIG.88A

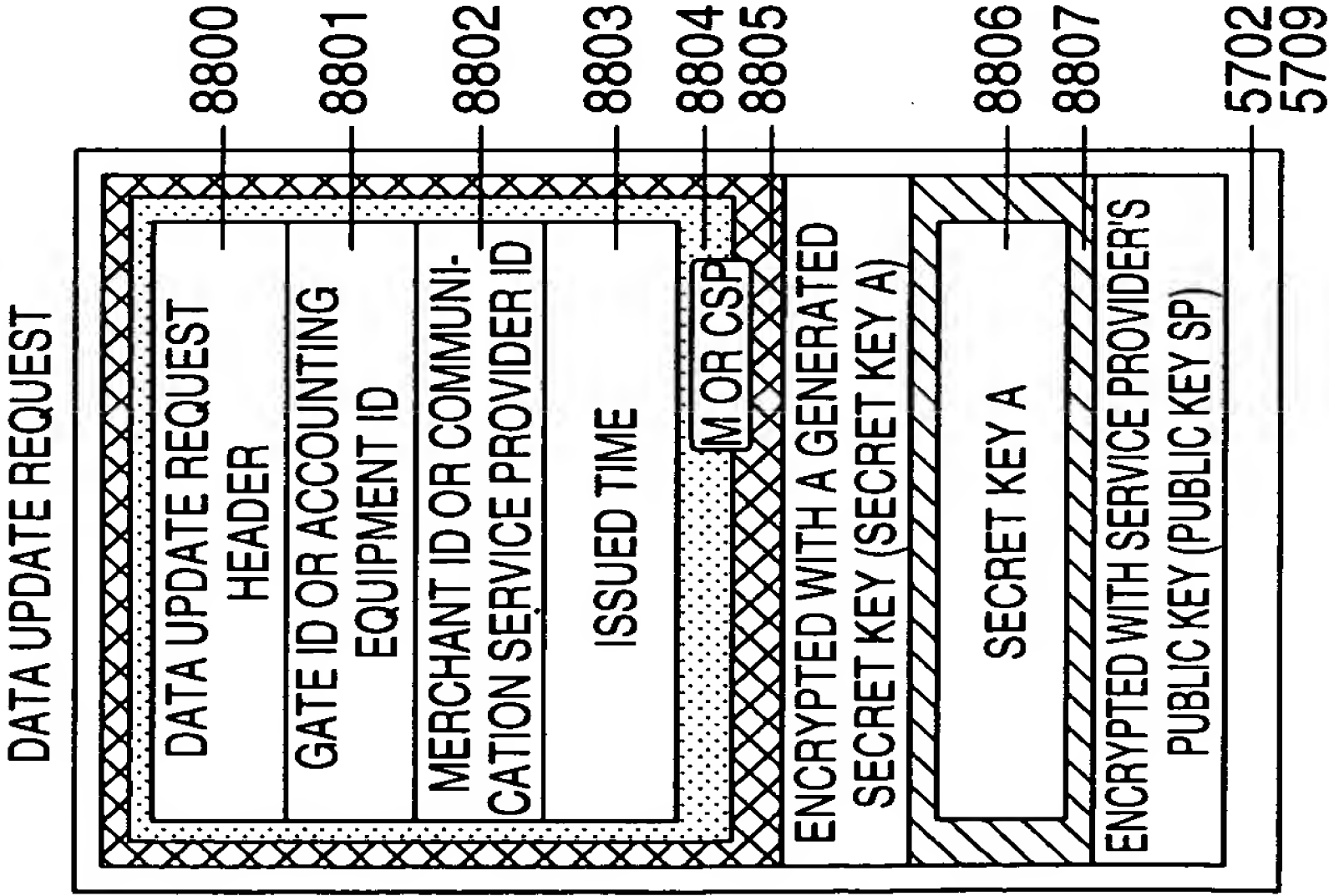


FIG.88B

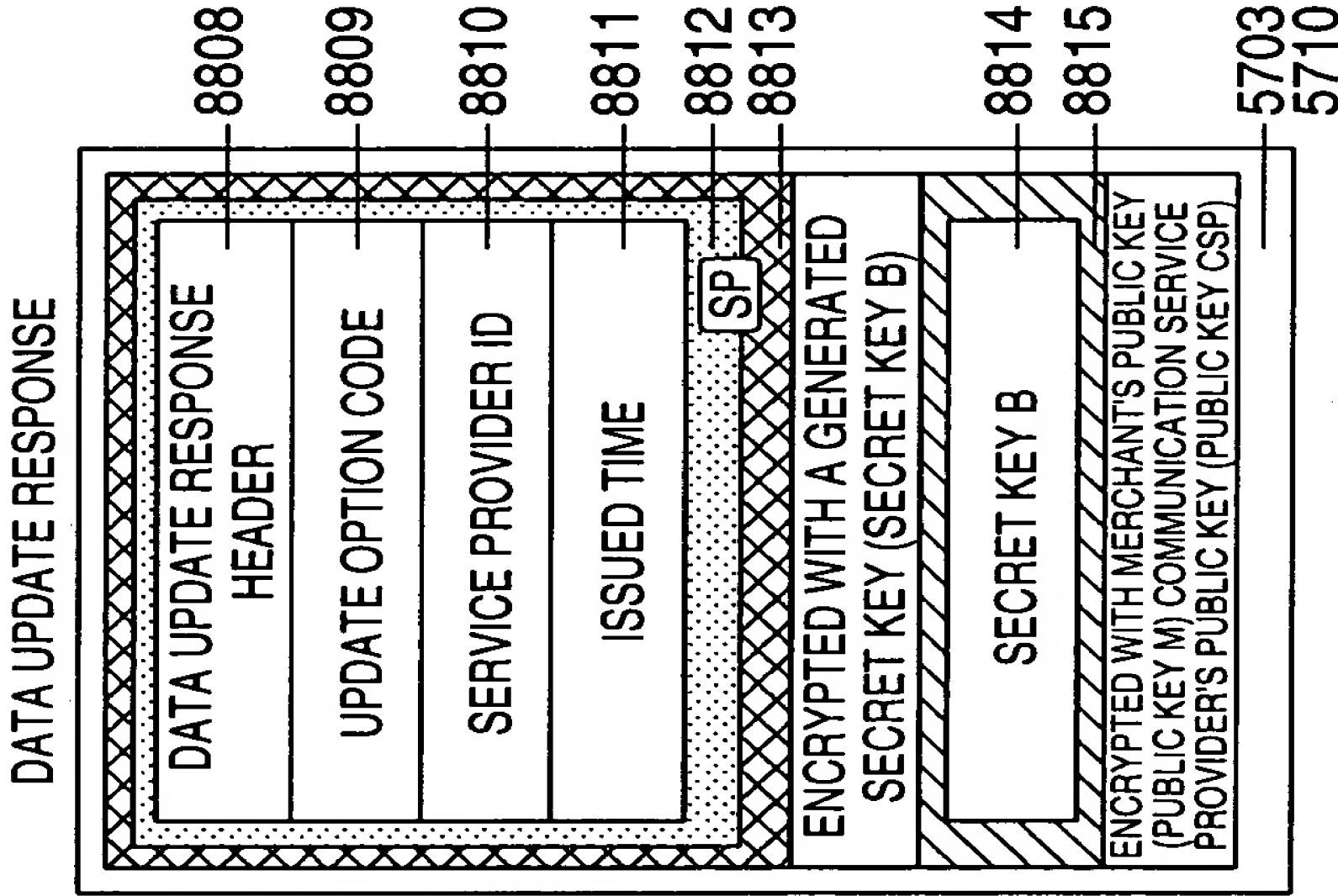


FIG.88C

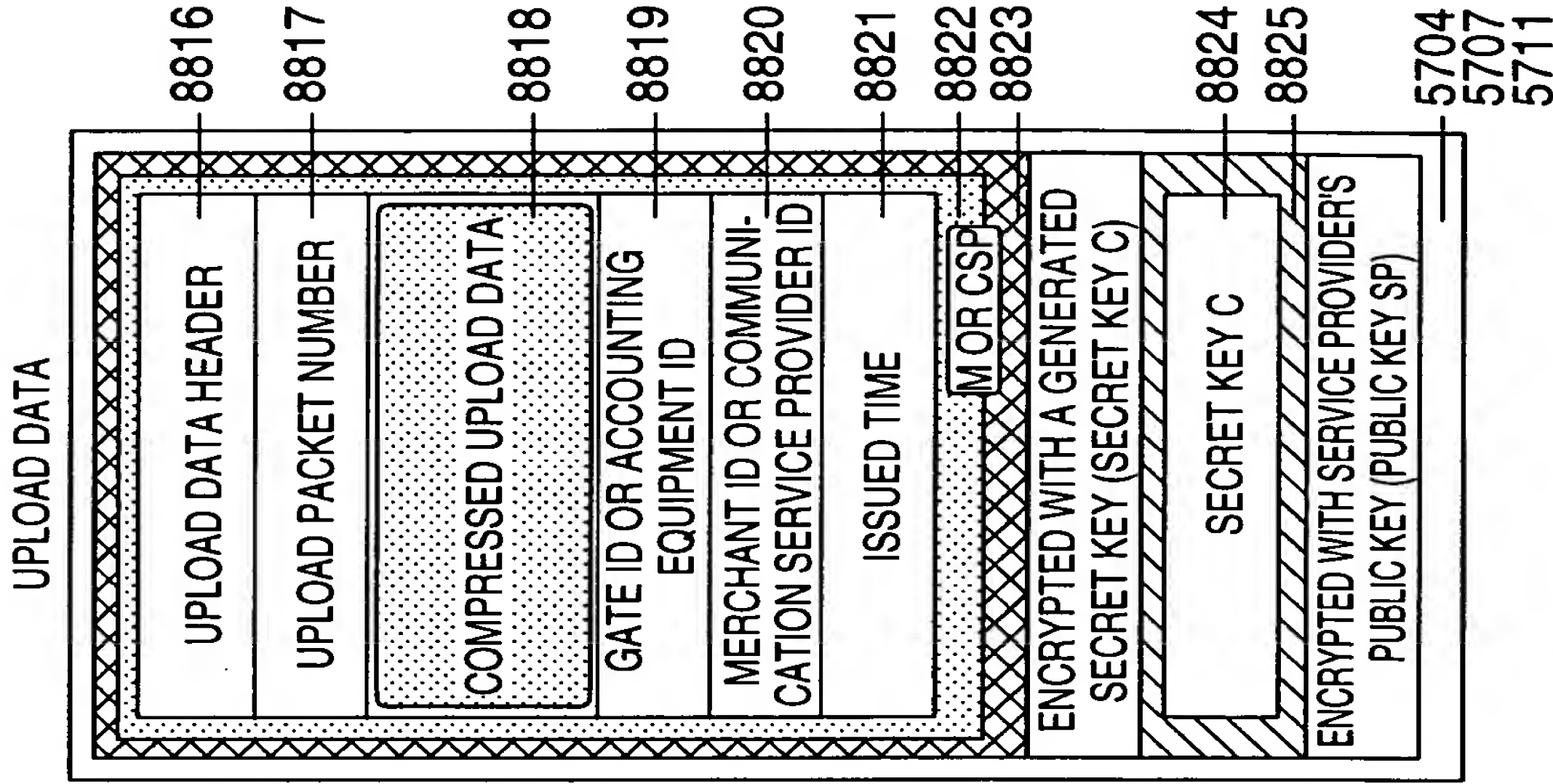


FIG.88D

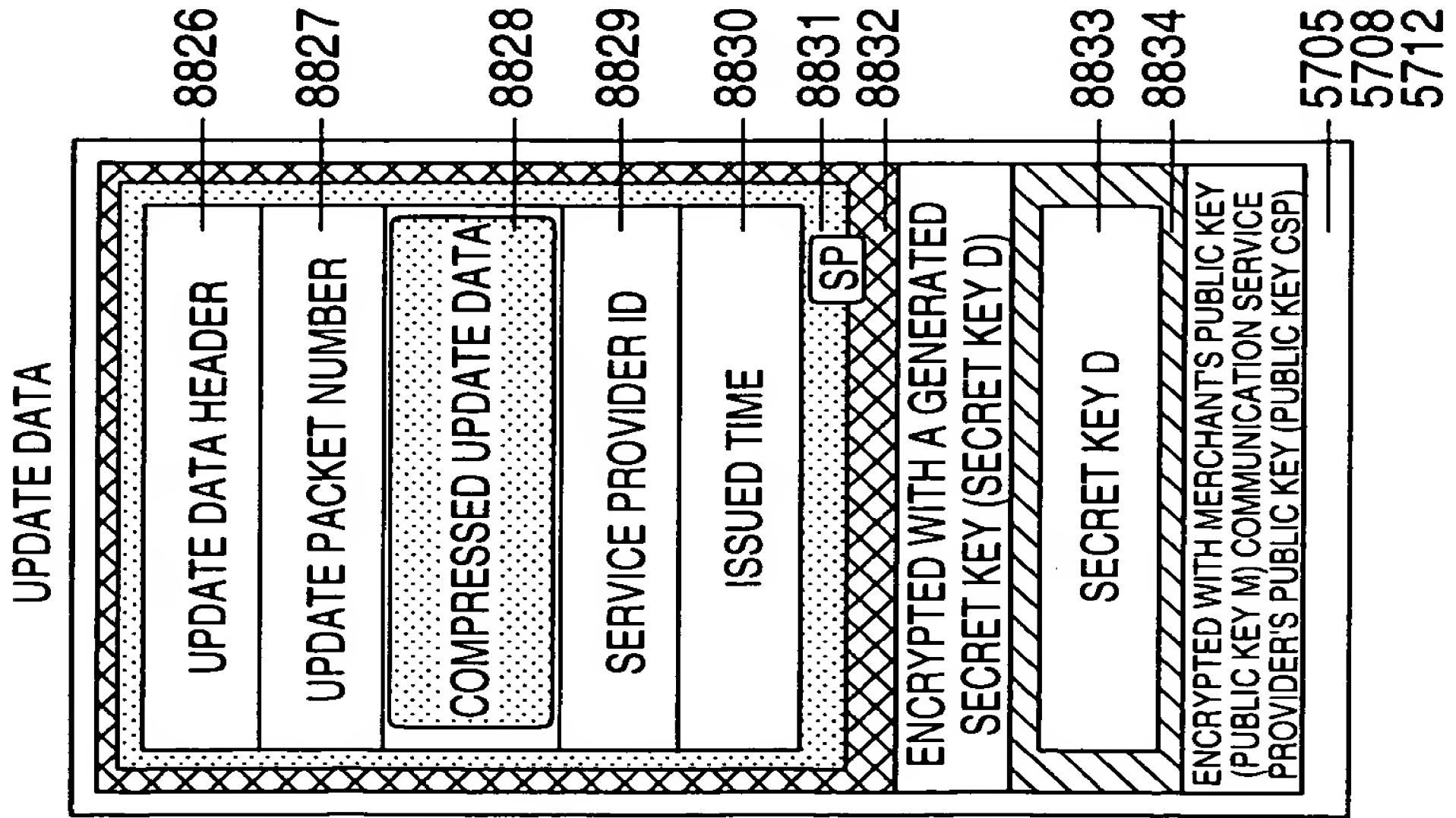


FIG.88E

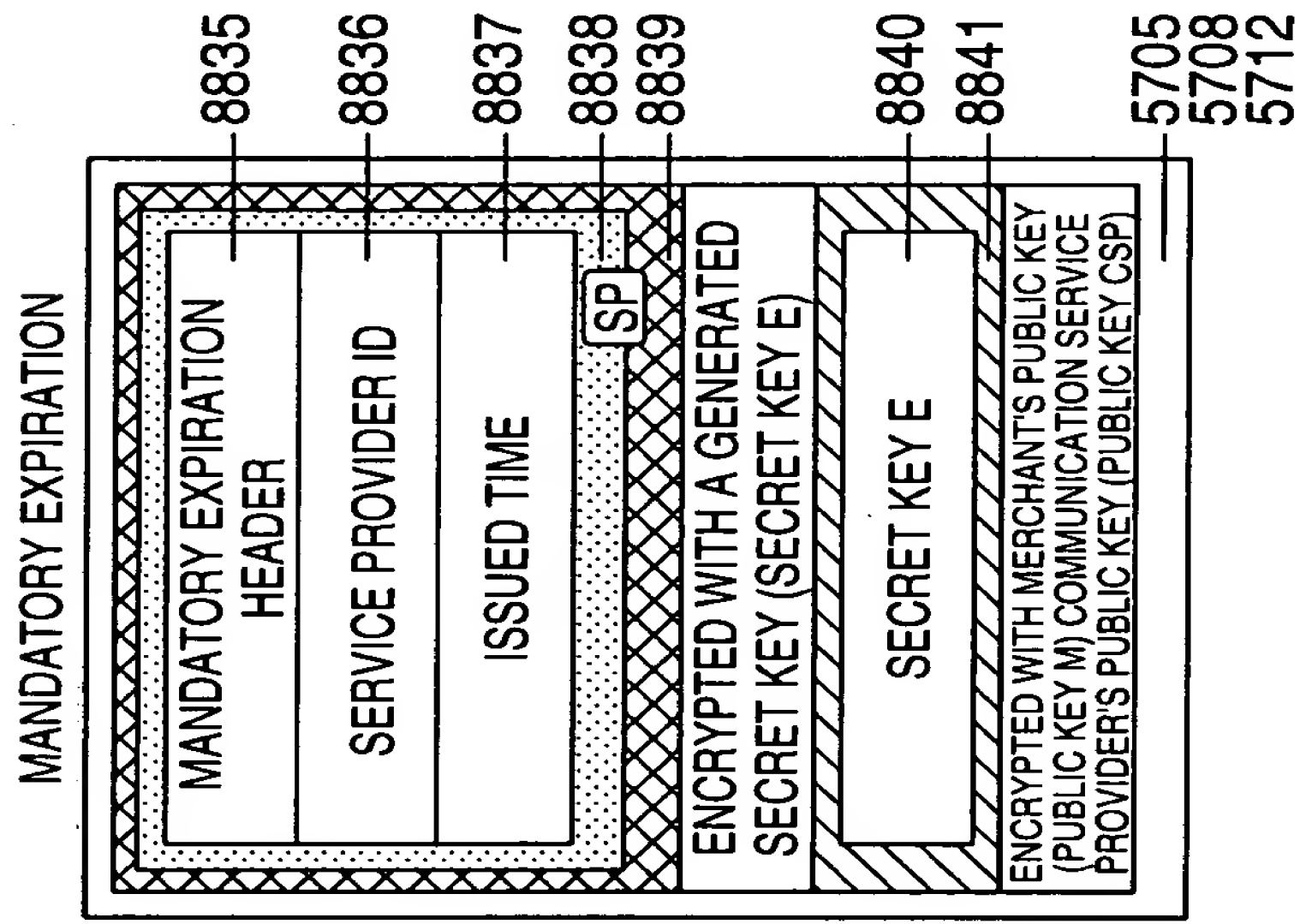


FIG.88F

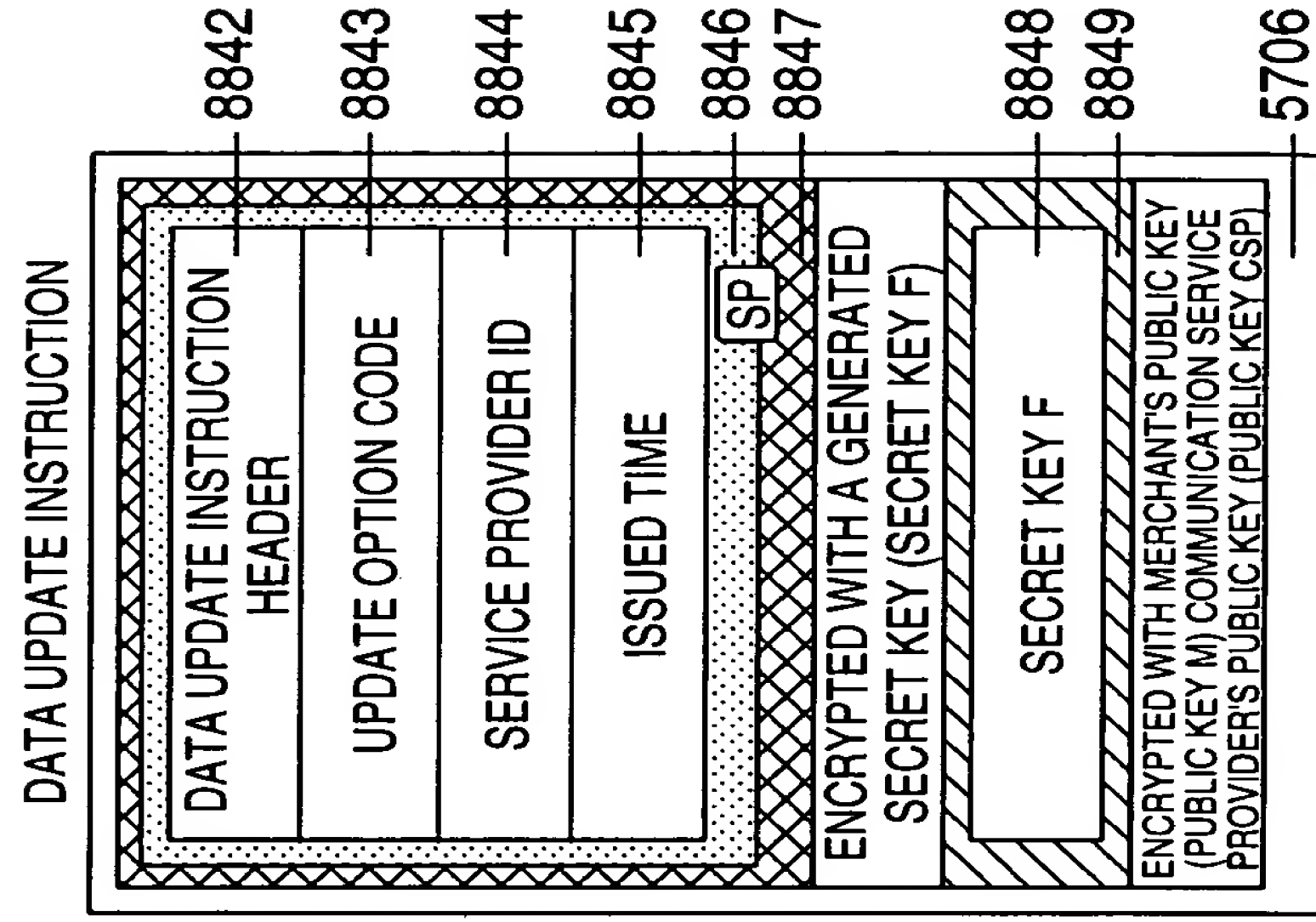




FIG.89A

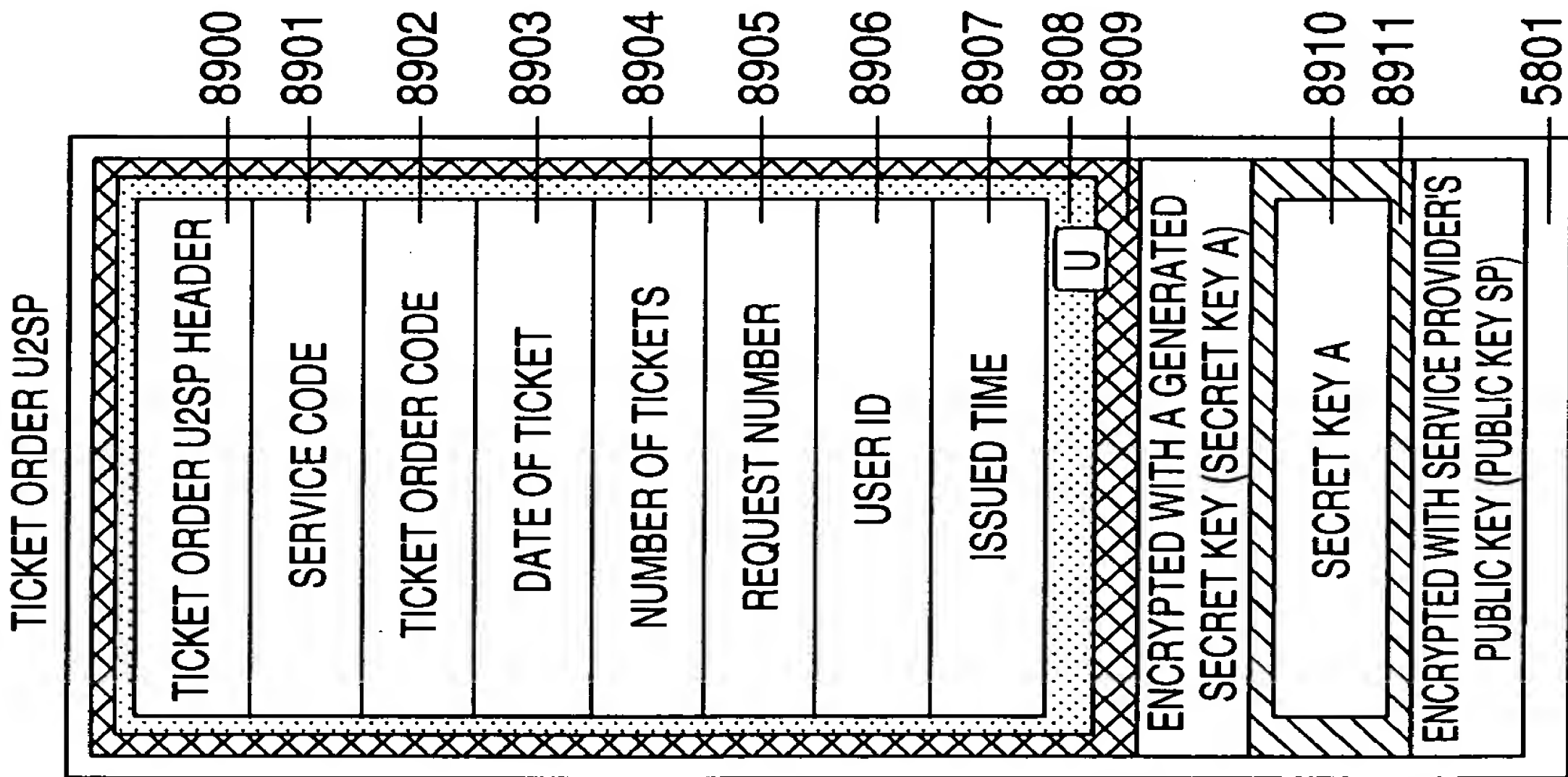


FIG.89B

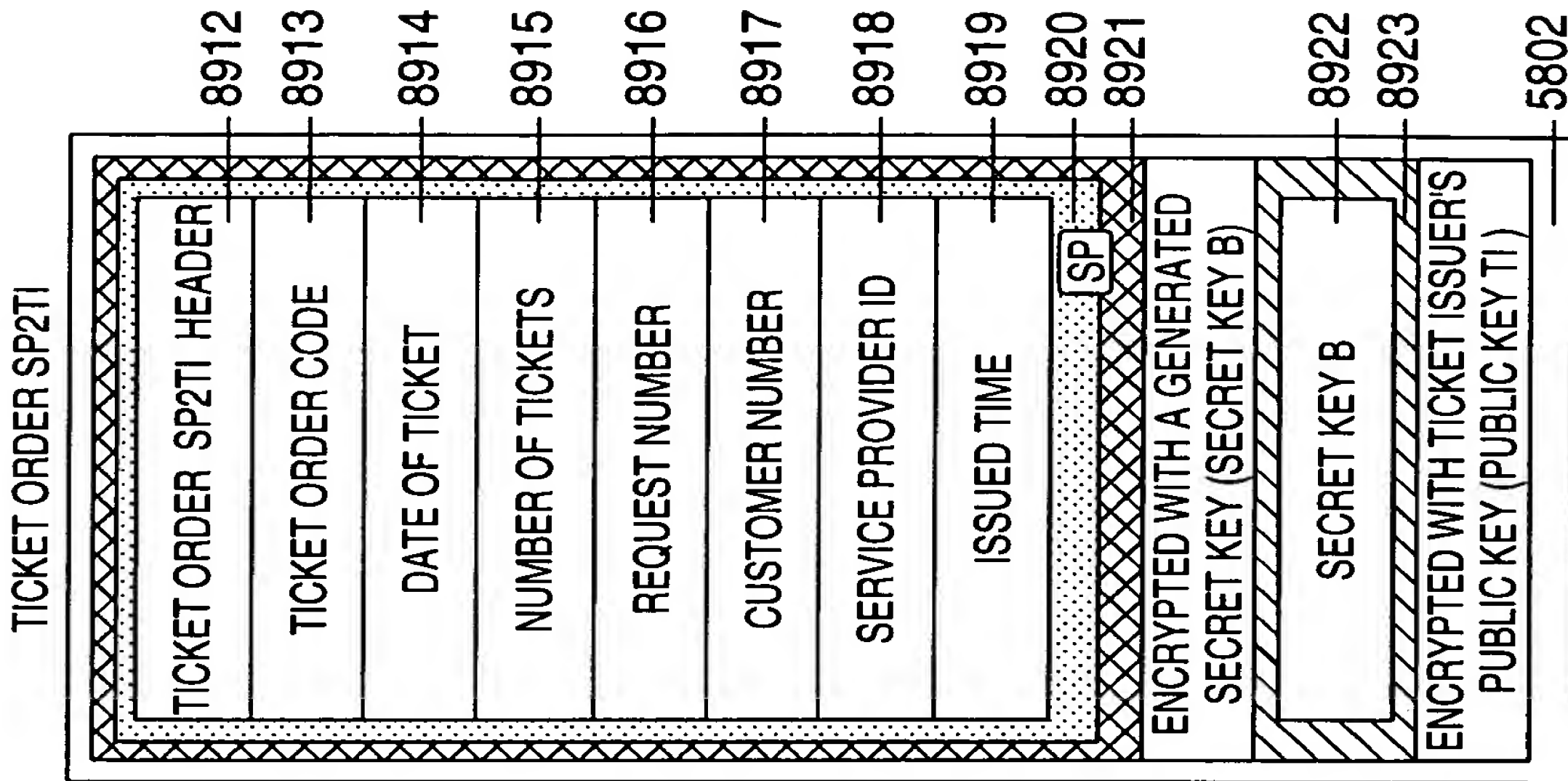


FIG. 90A

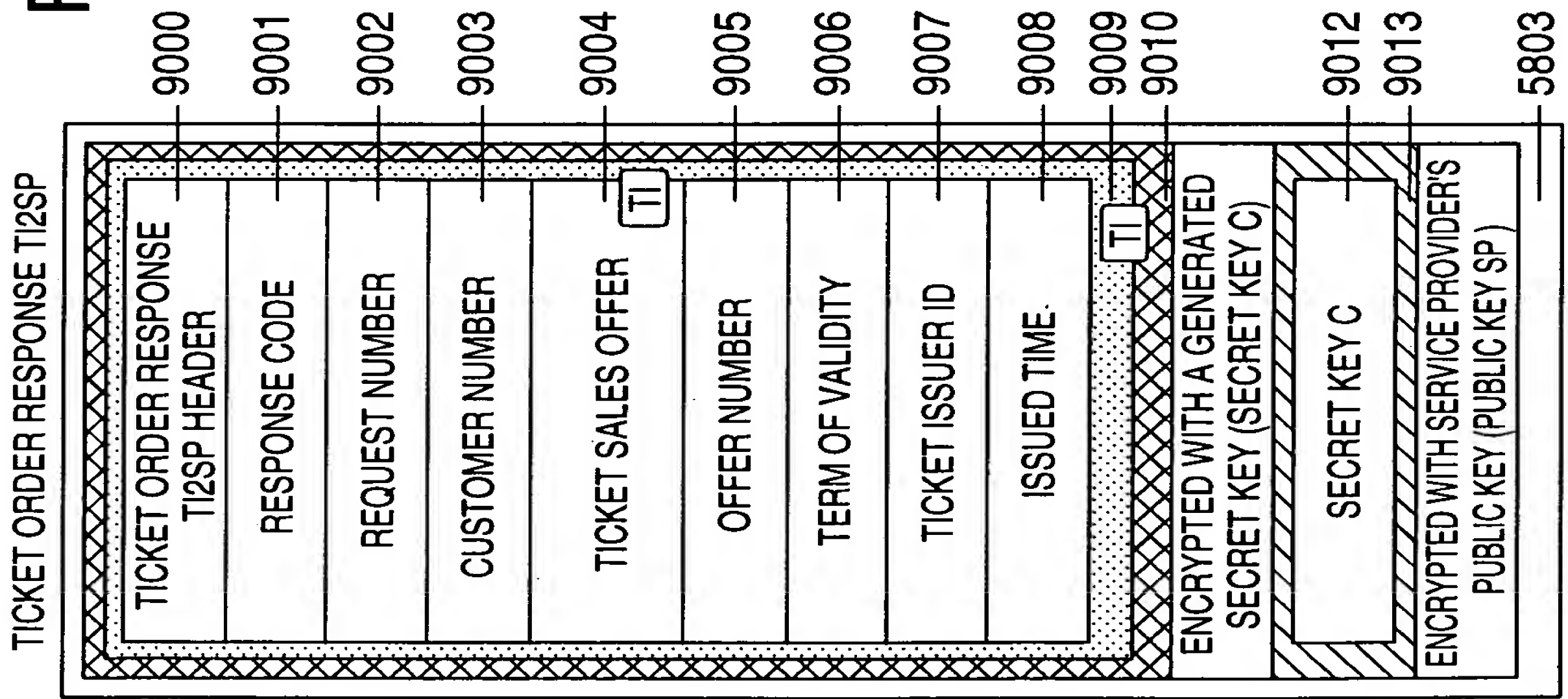
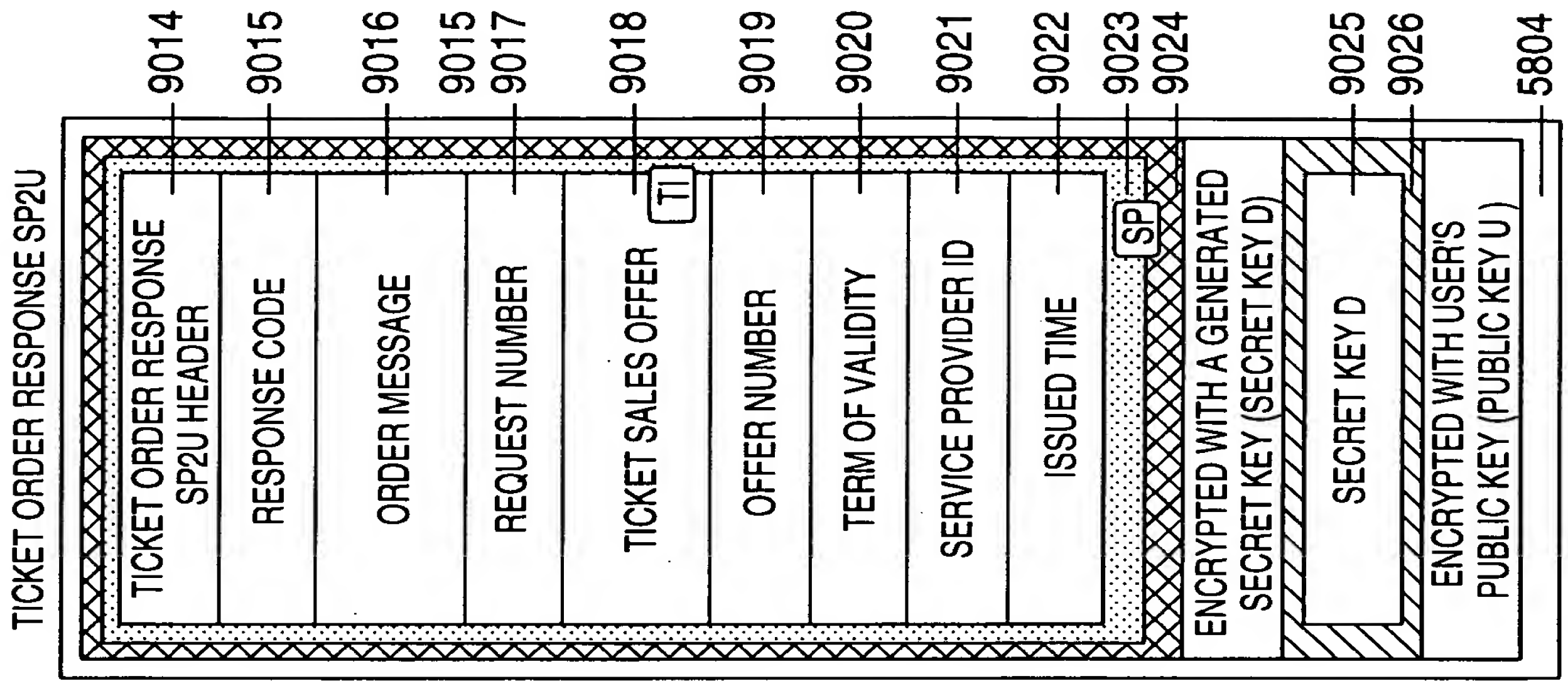


FIG. 90B



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FIG.91A

## TICKET PURCHASE ORDER U2SP

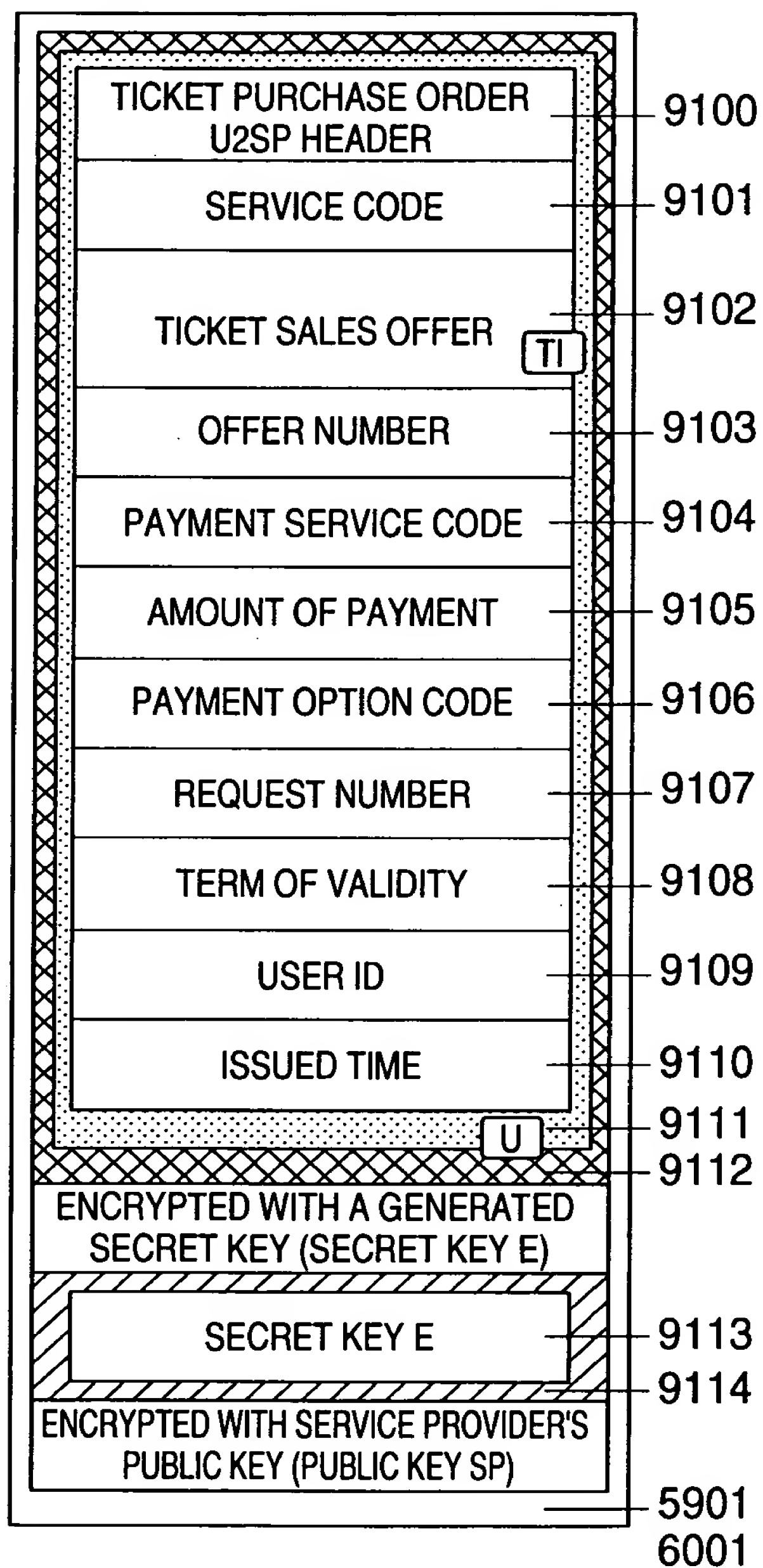


FIG.91B

## TICKET PURCHASE ORDER SP2TI

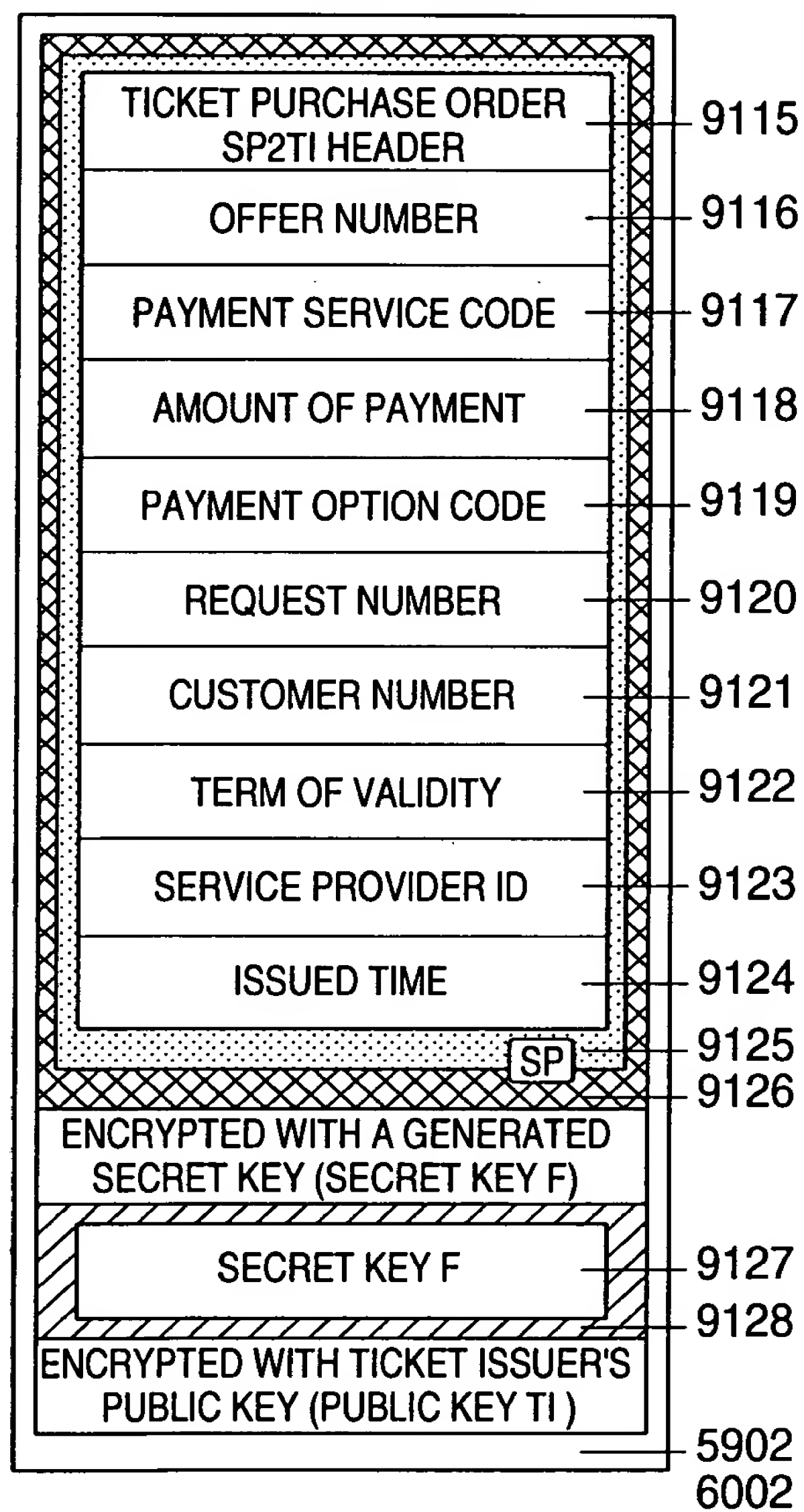


FIG.92A

## ELECTRONIC TICKET ISSUING COMMISSION

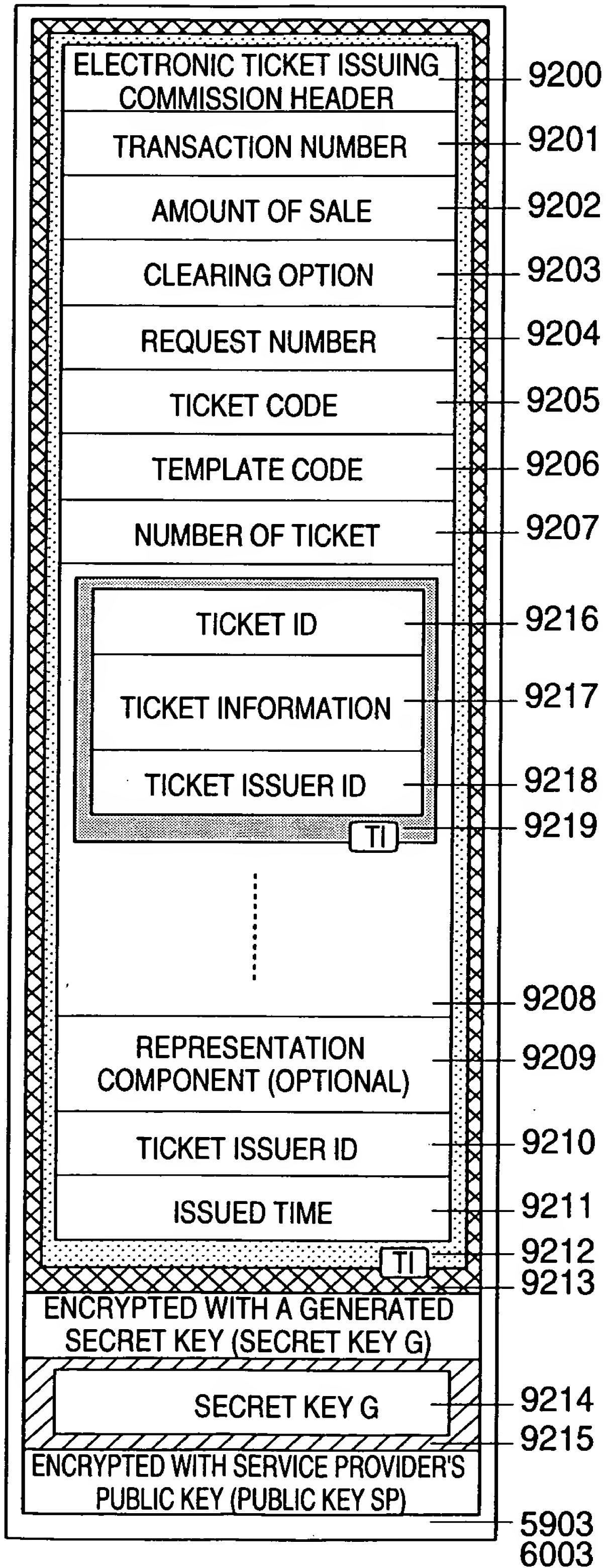


FIG.92B

## ELECTRONIC TICKET ISSUING

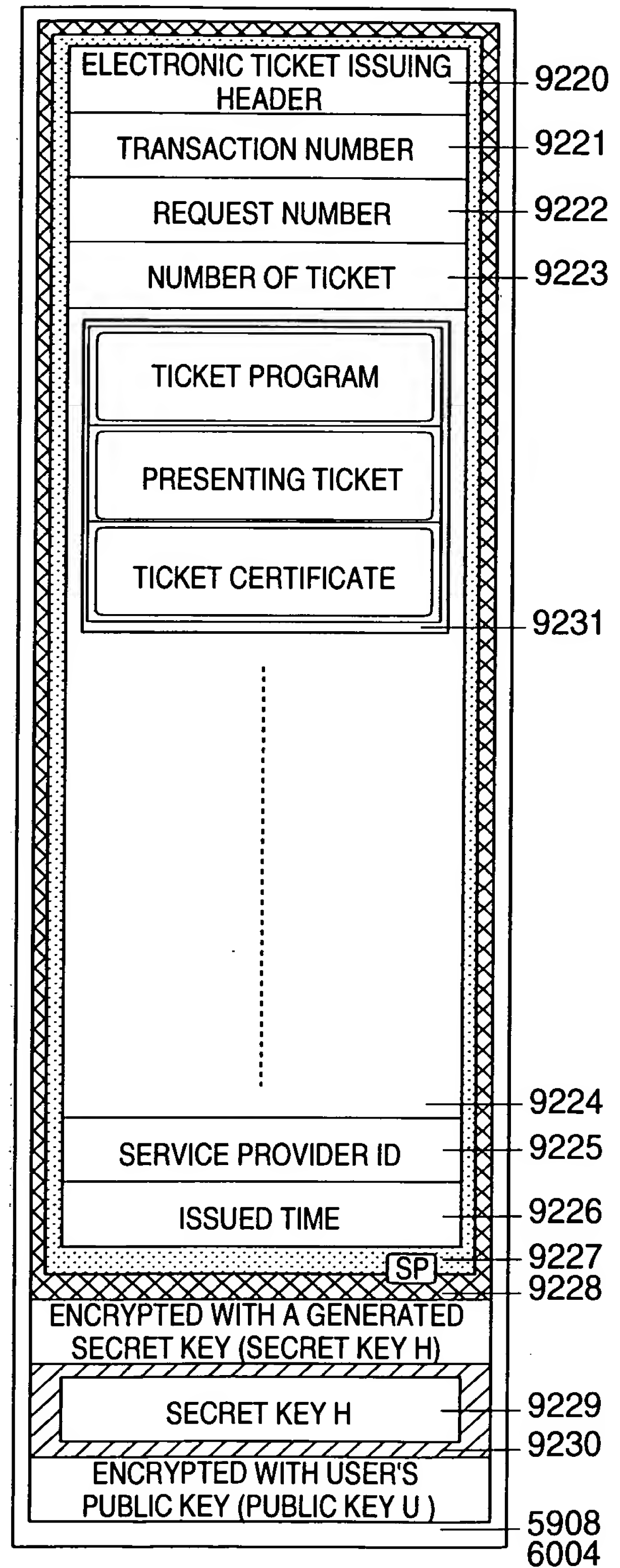


FIG.93A

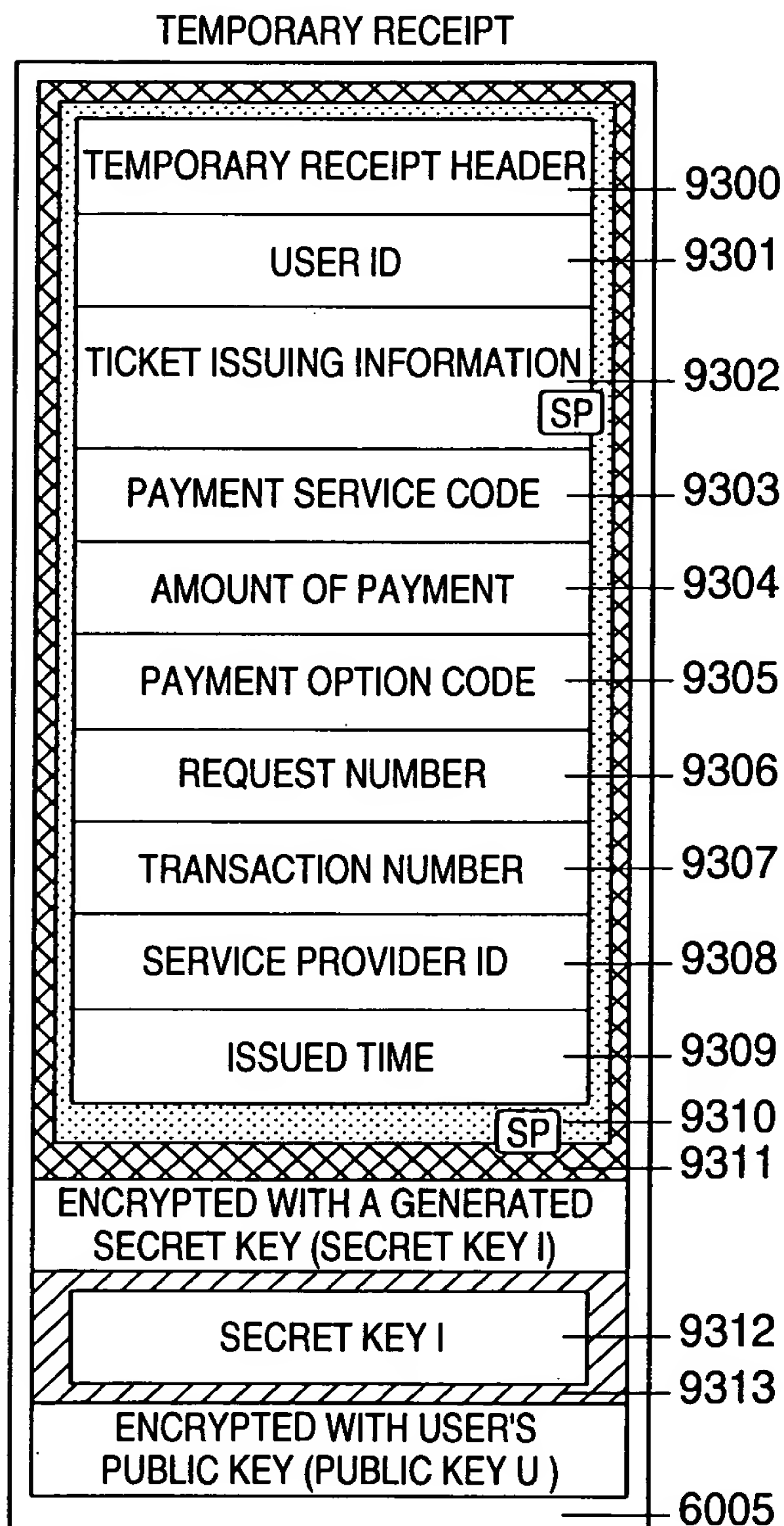


FIG.93B

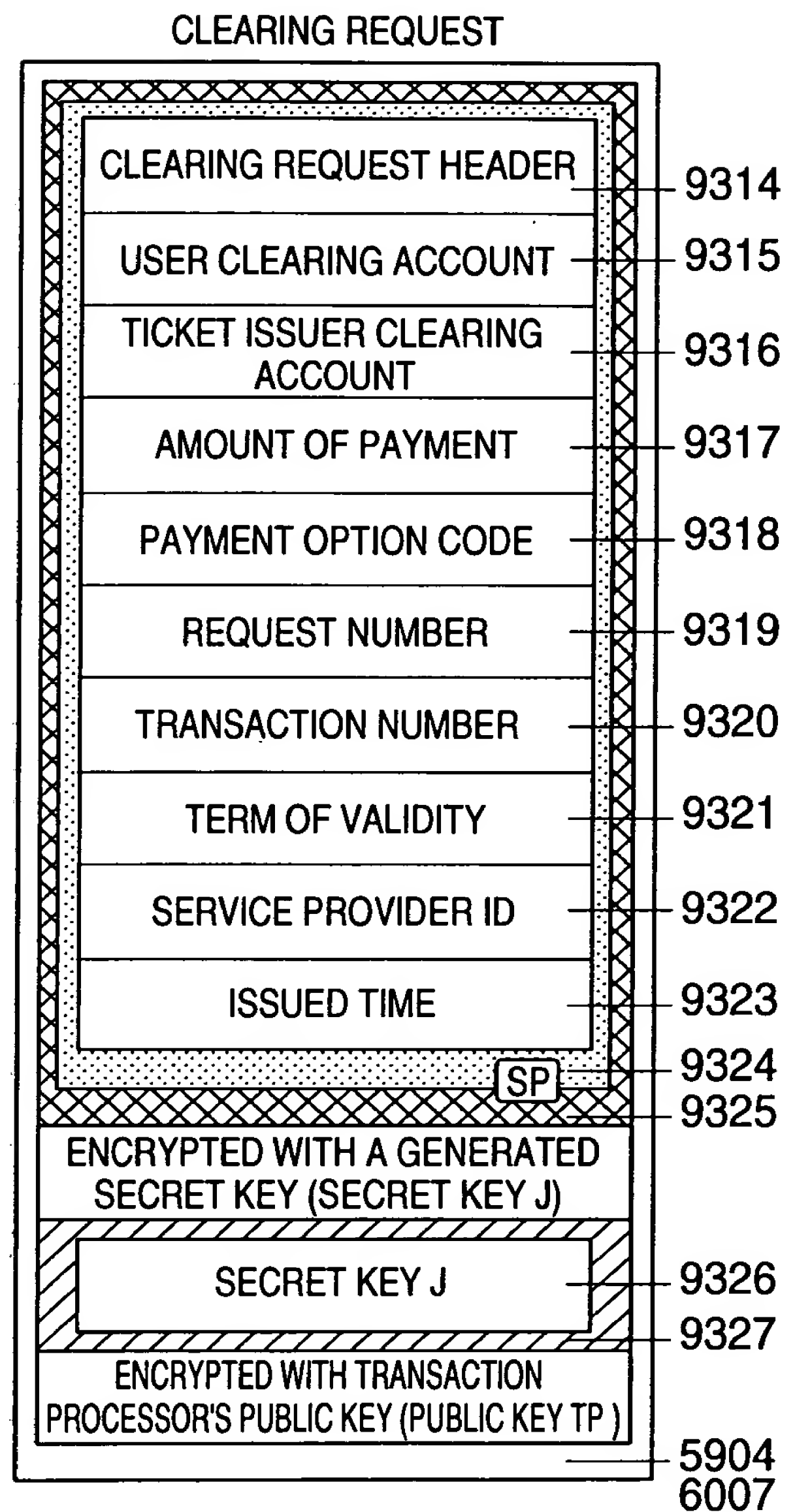




FIG.94A

CLEARING COMPLETION TP2SP

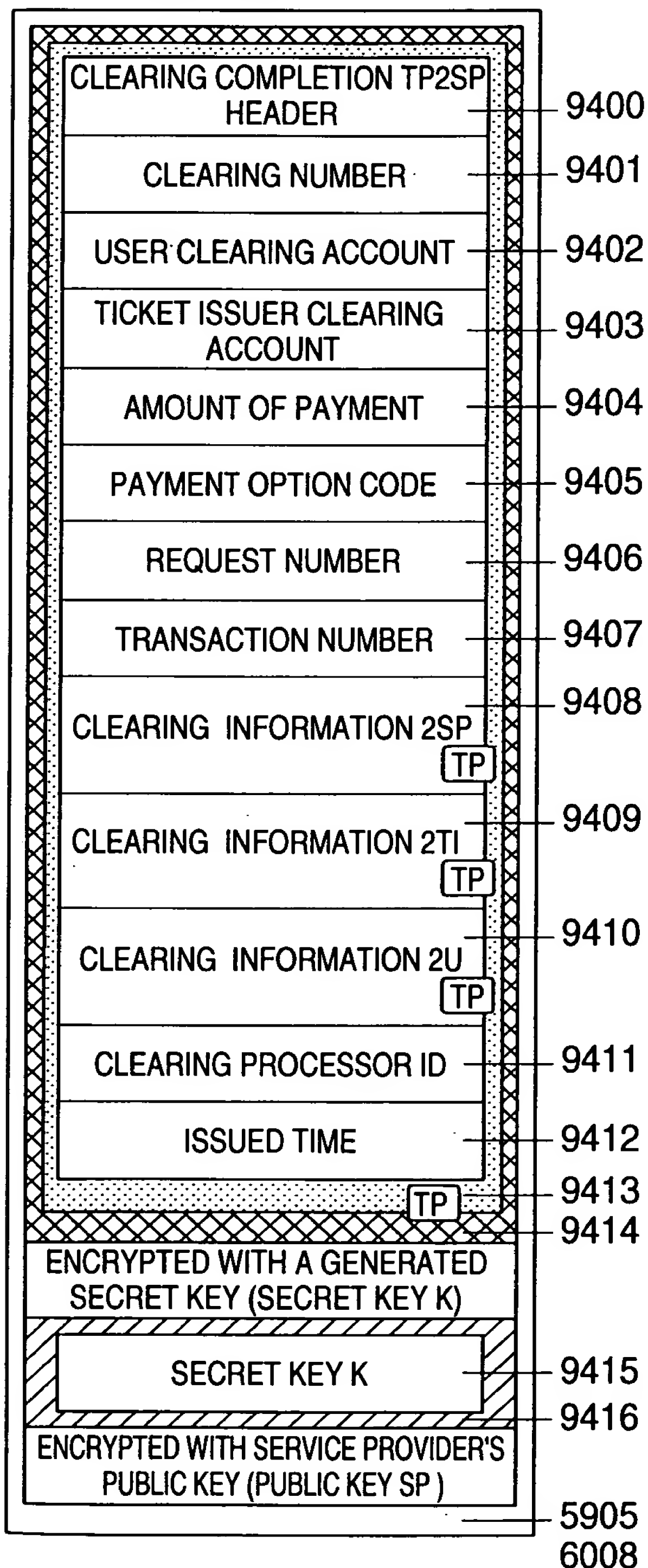


FIG.94B

CLEARING COMPLETION SP2TI

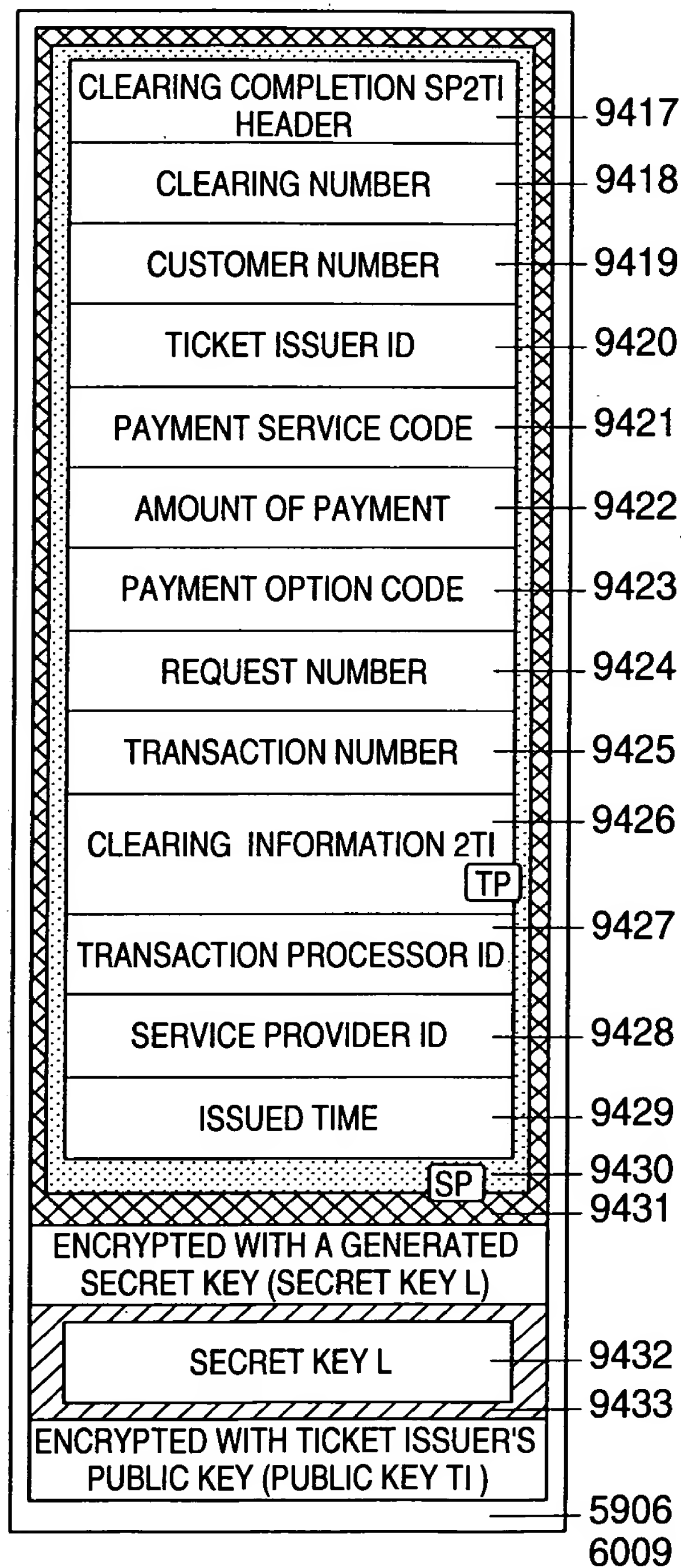
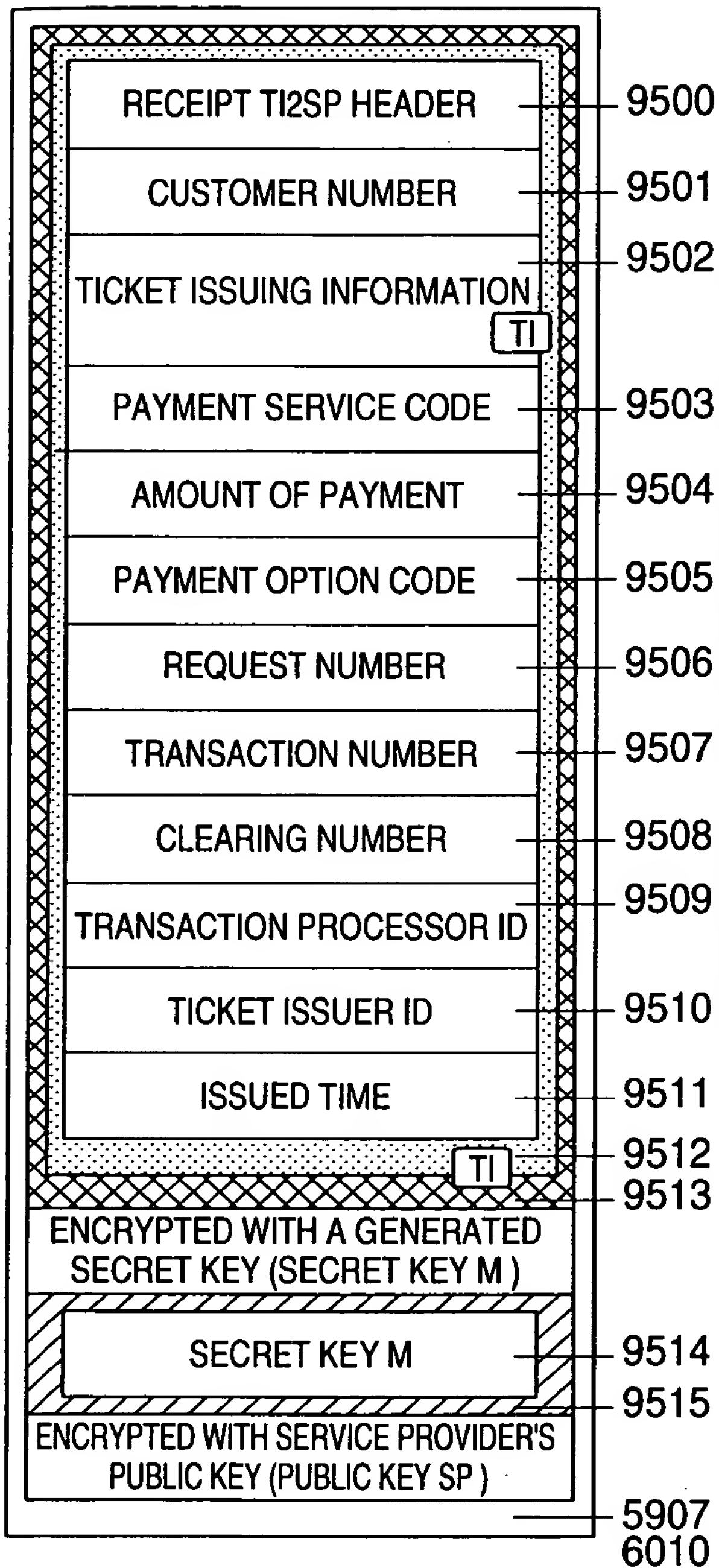


FIG.95A

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FIG.95B

RECEIPT T12SP



RECEIPT SP2U

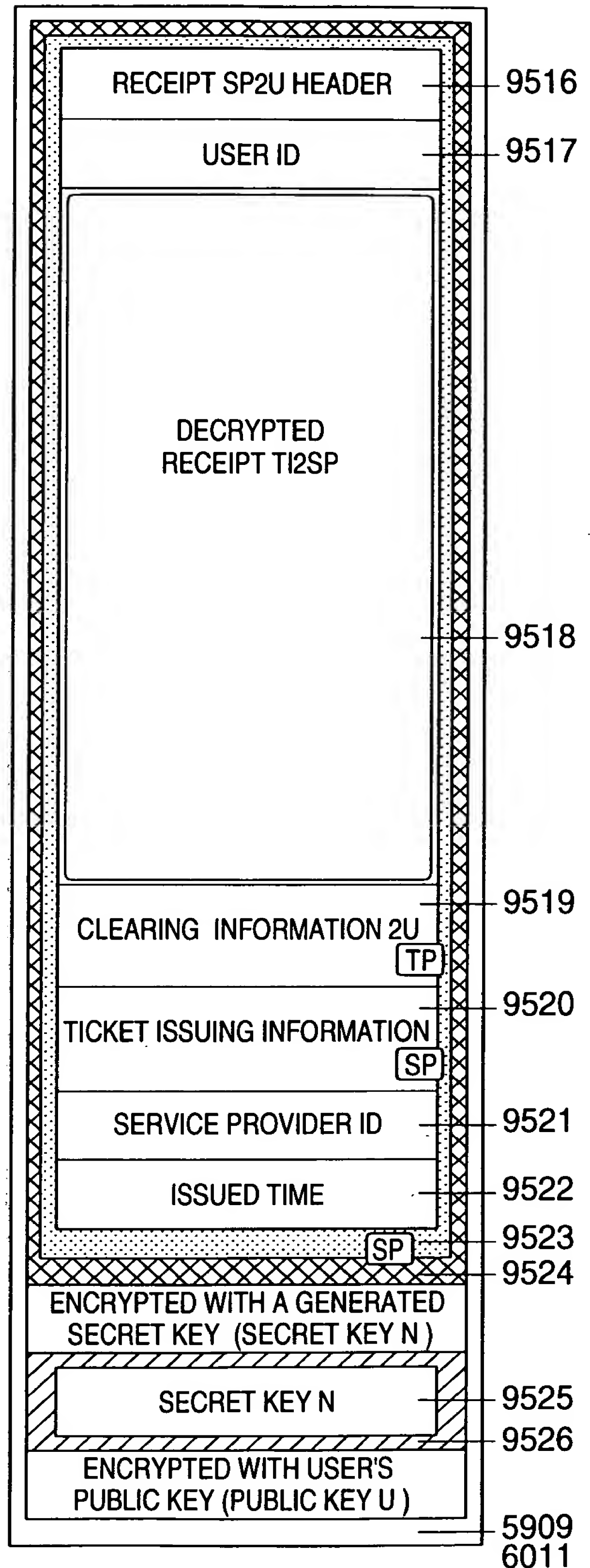


FIG.96A

PAYMENT CARD PURCHASE ORDER U2SP

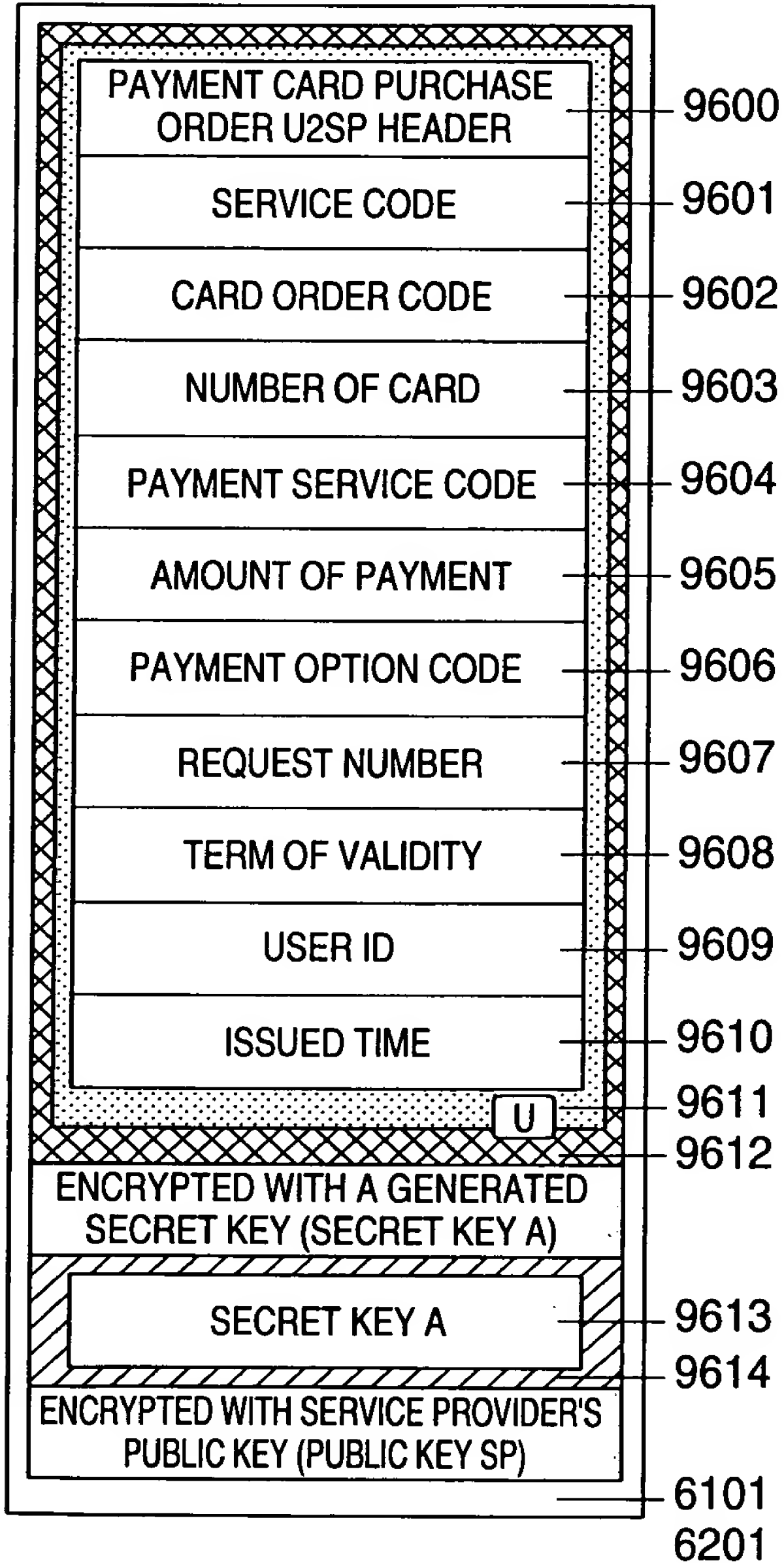
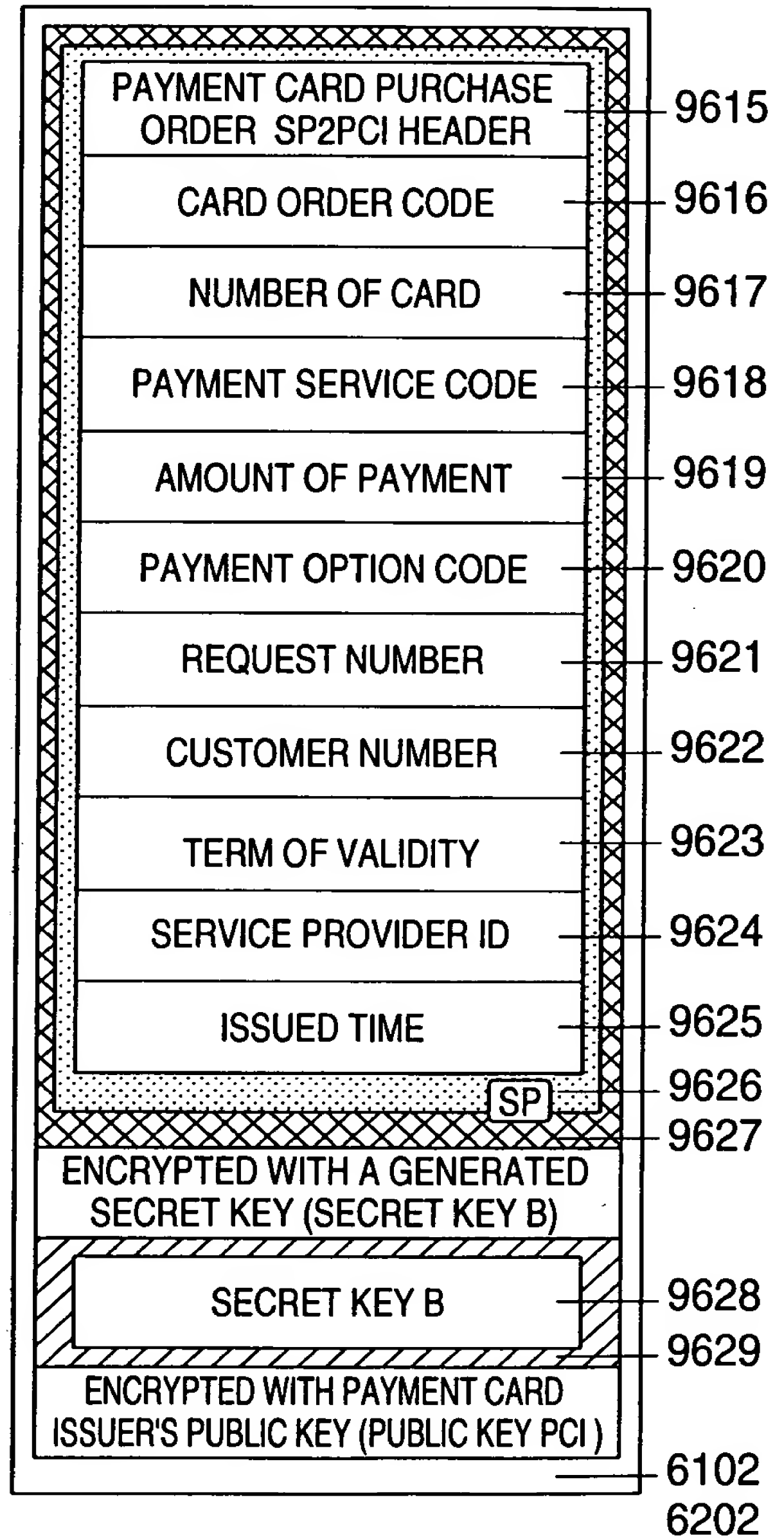


FIG.96B

PAYMENT CARD PURCHASE ORDER SP2PCI





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FIG.97A

ELECTRONIC PAYMENT CARD  
ISSUING COMMISSION

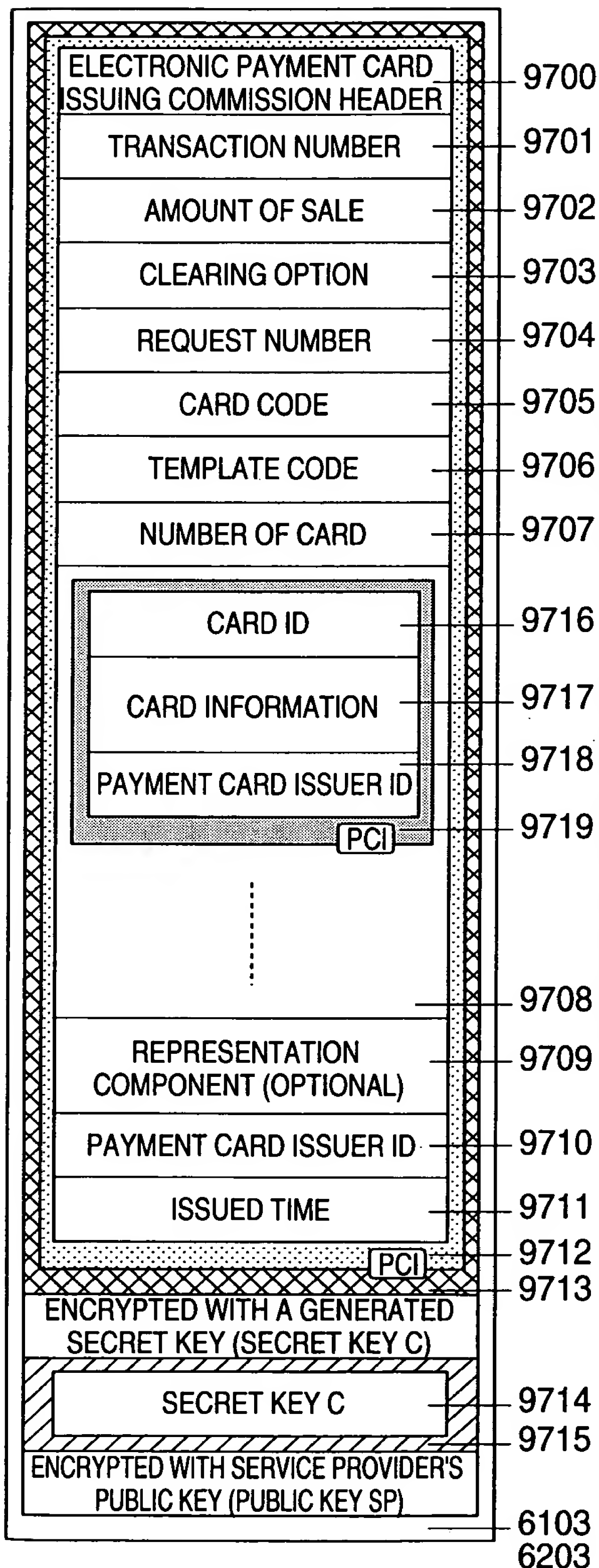


FIG.97B

ELECTRONIC PAYMENT CARD ISSUING

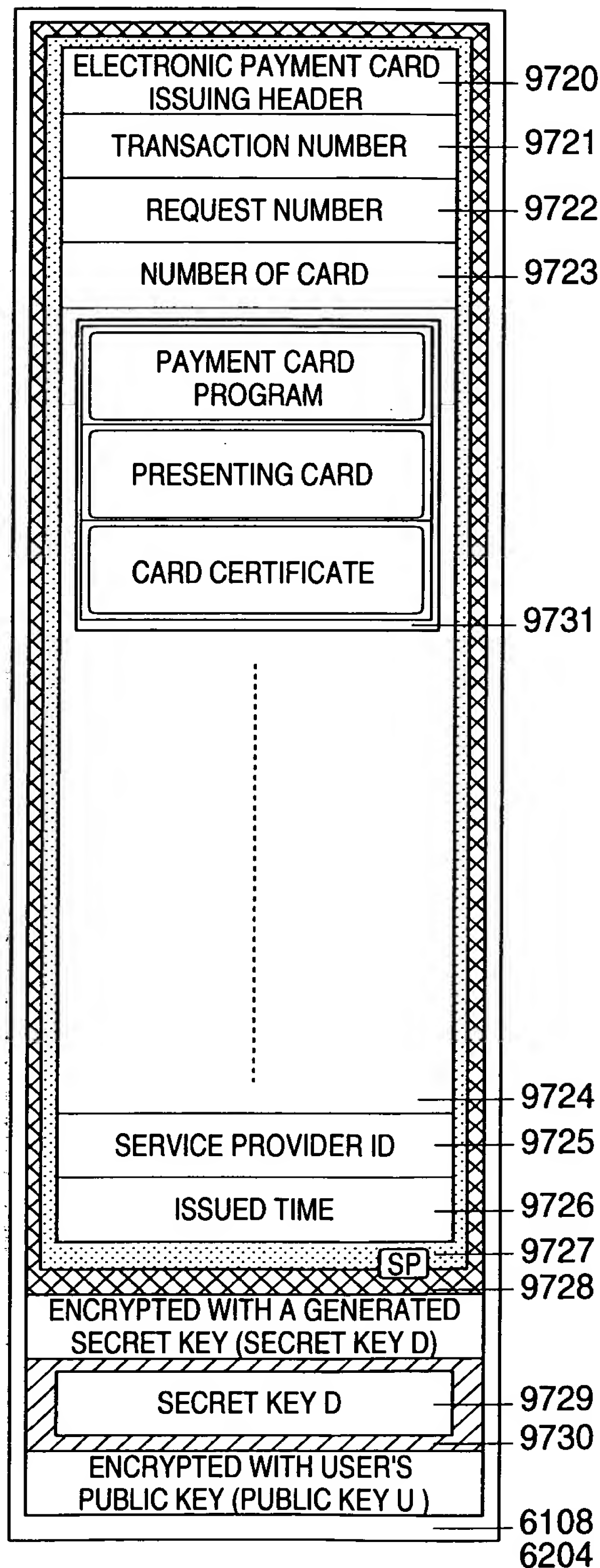


FIG.98A

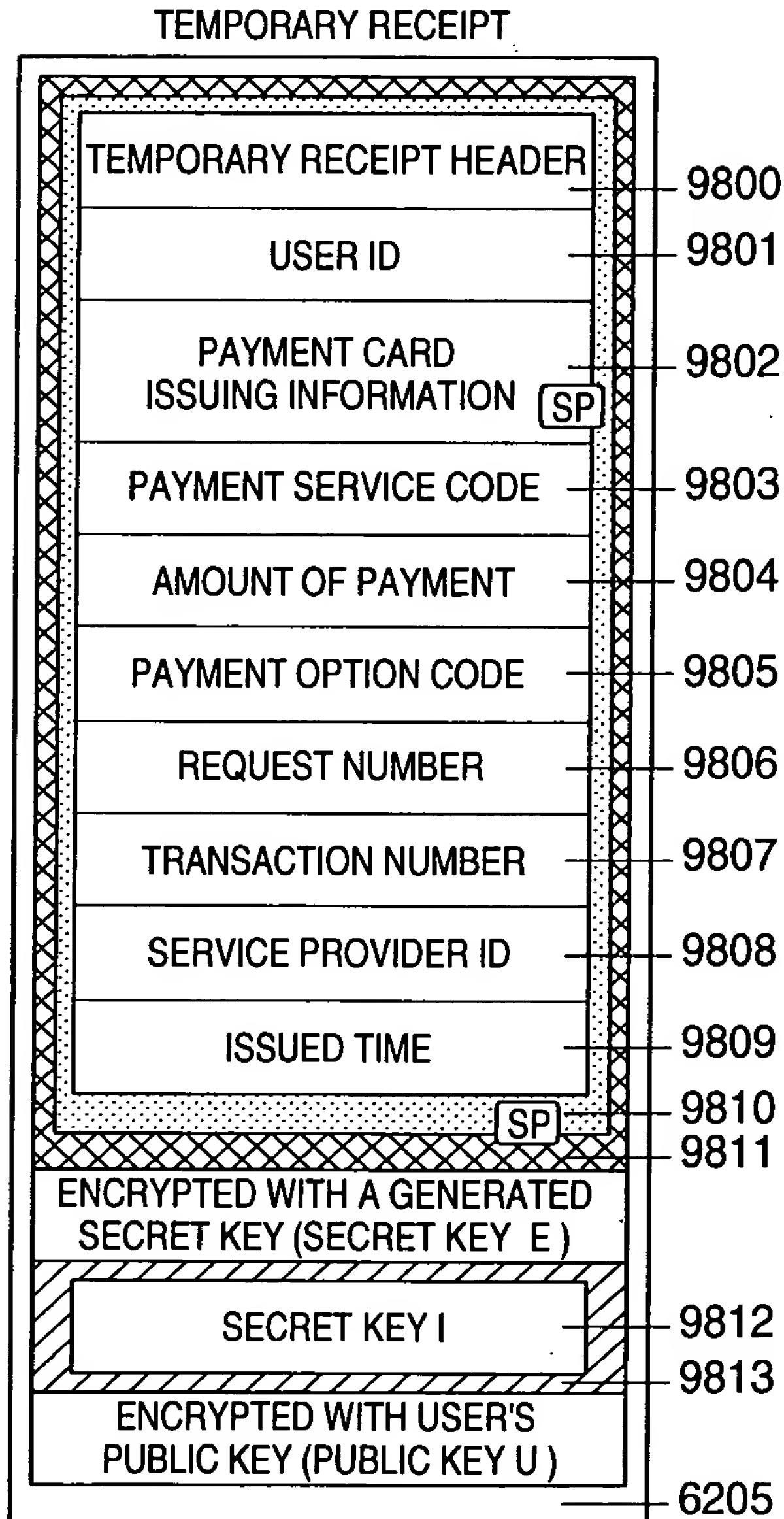


FIG.98B

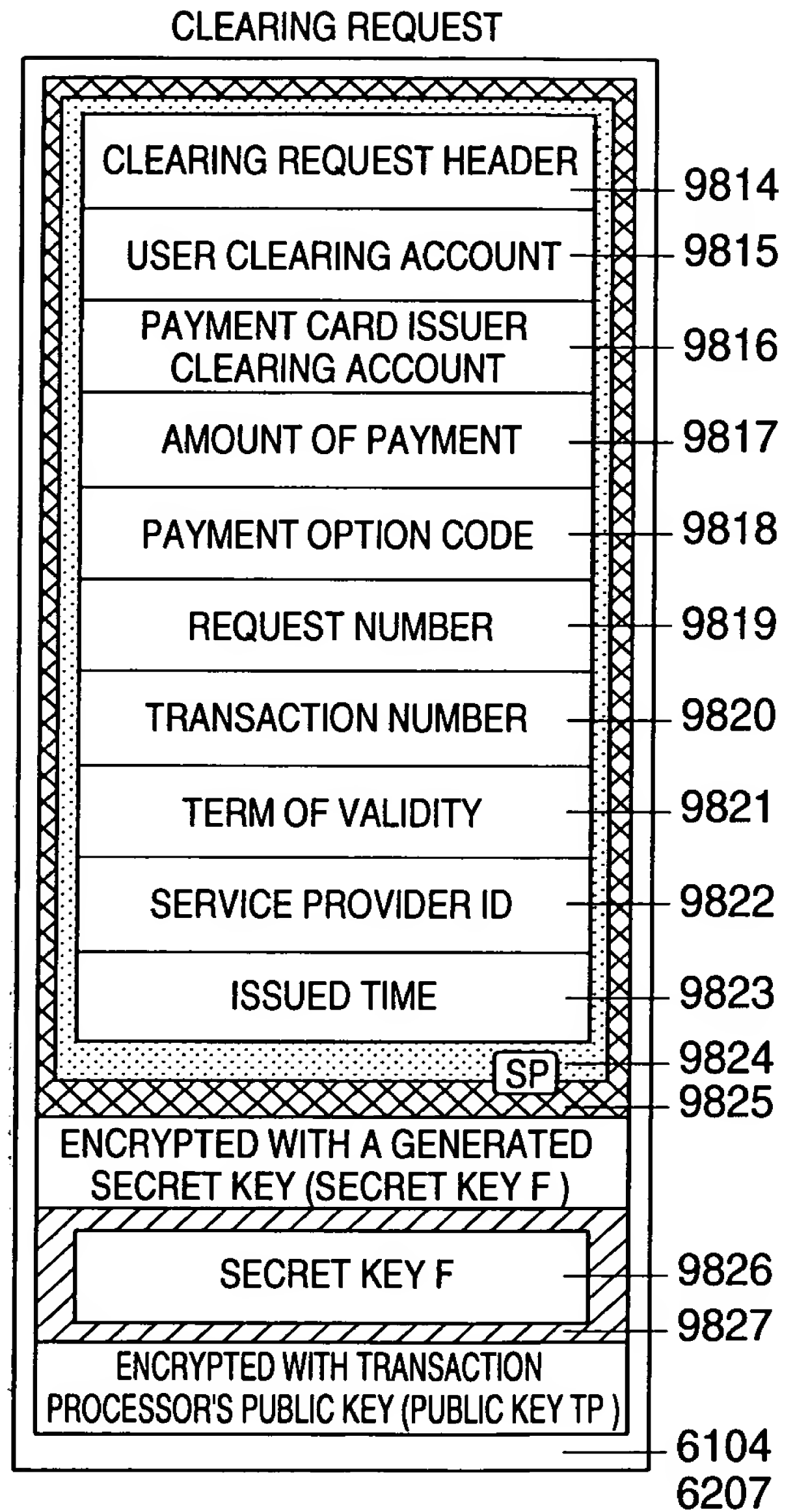


FIG.99A

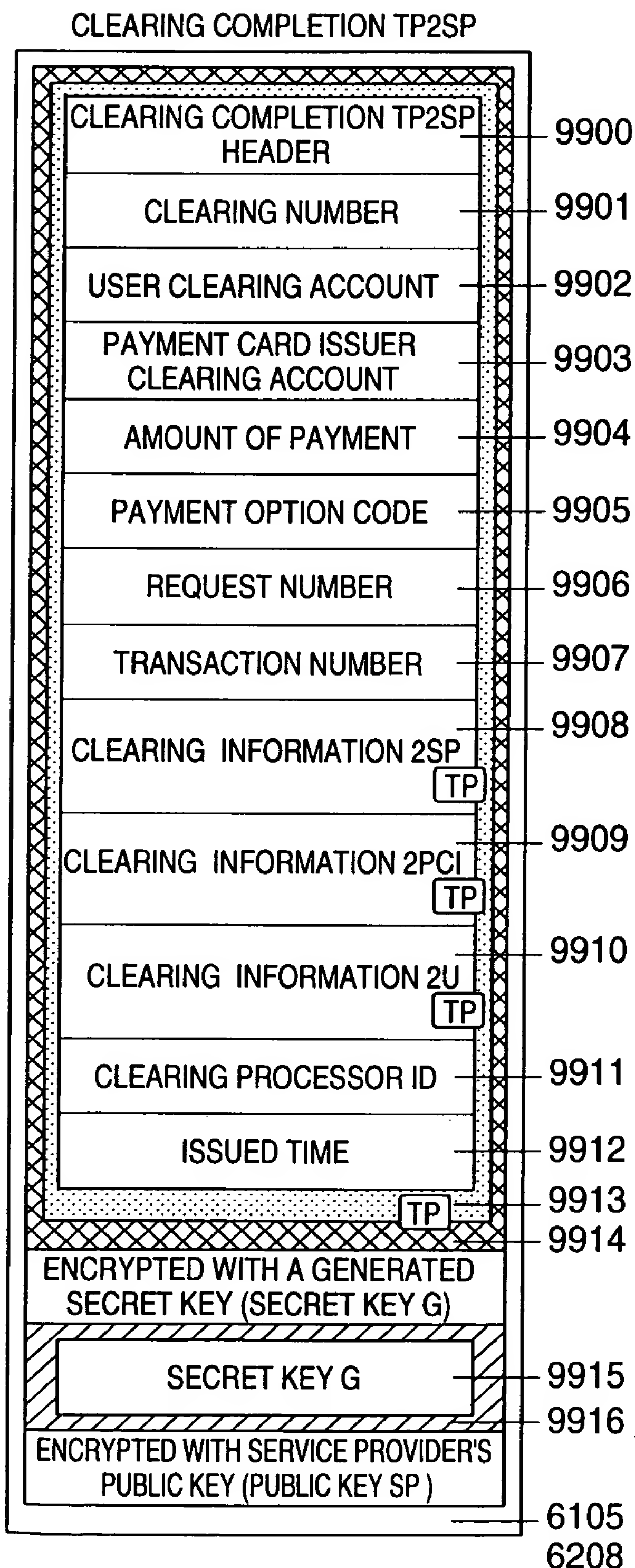
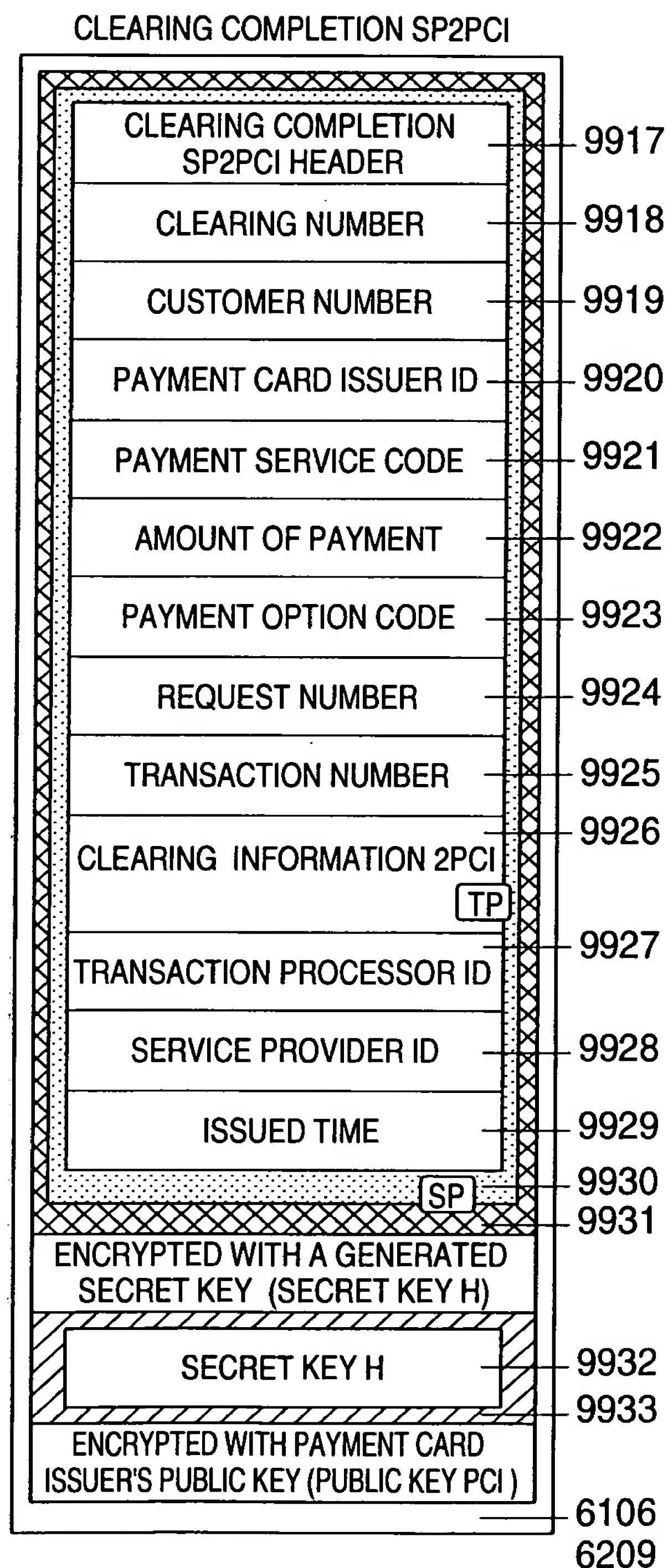


FIG.99B



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FIG.100A

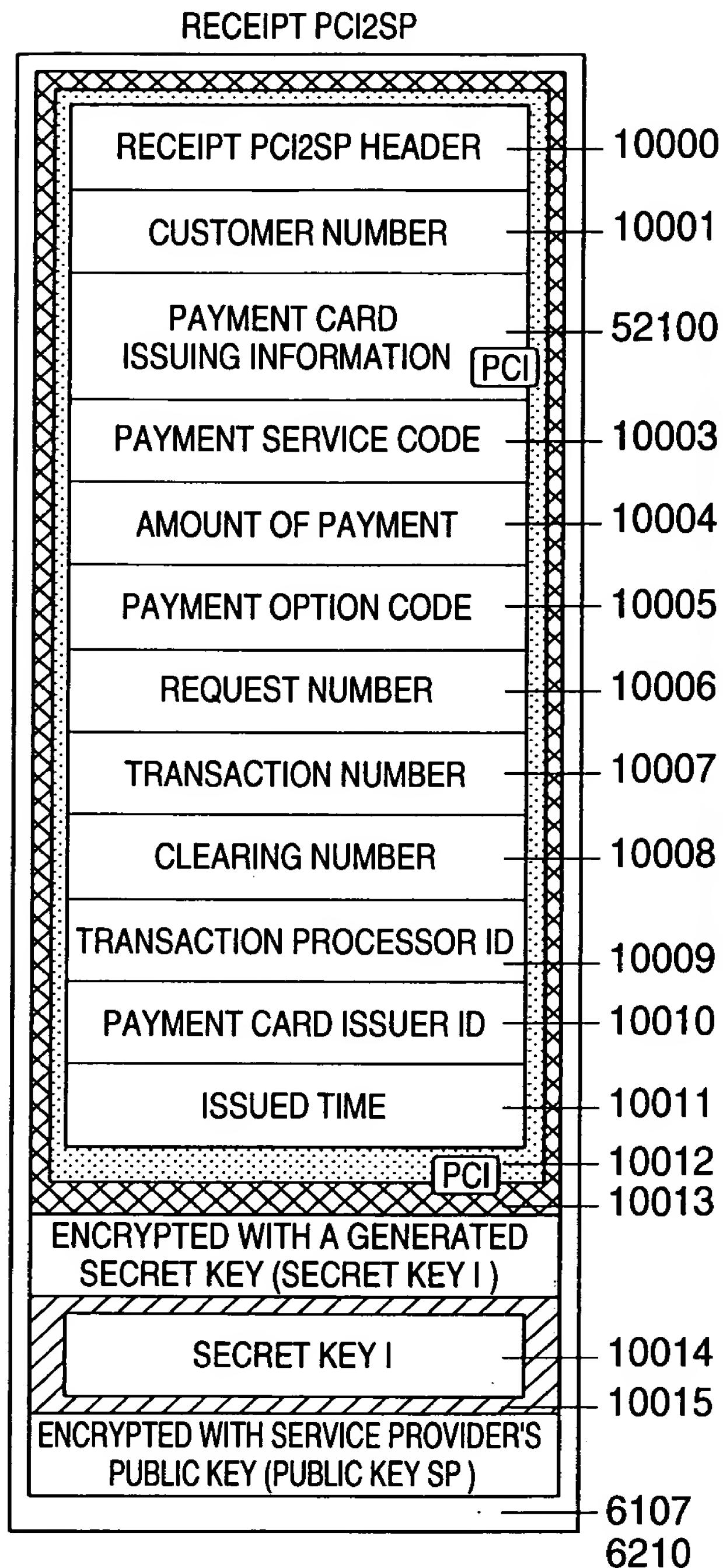


FIG.100B

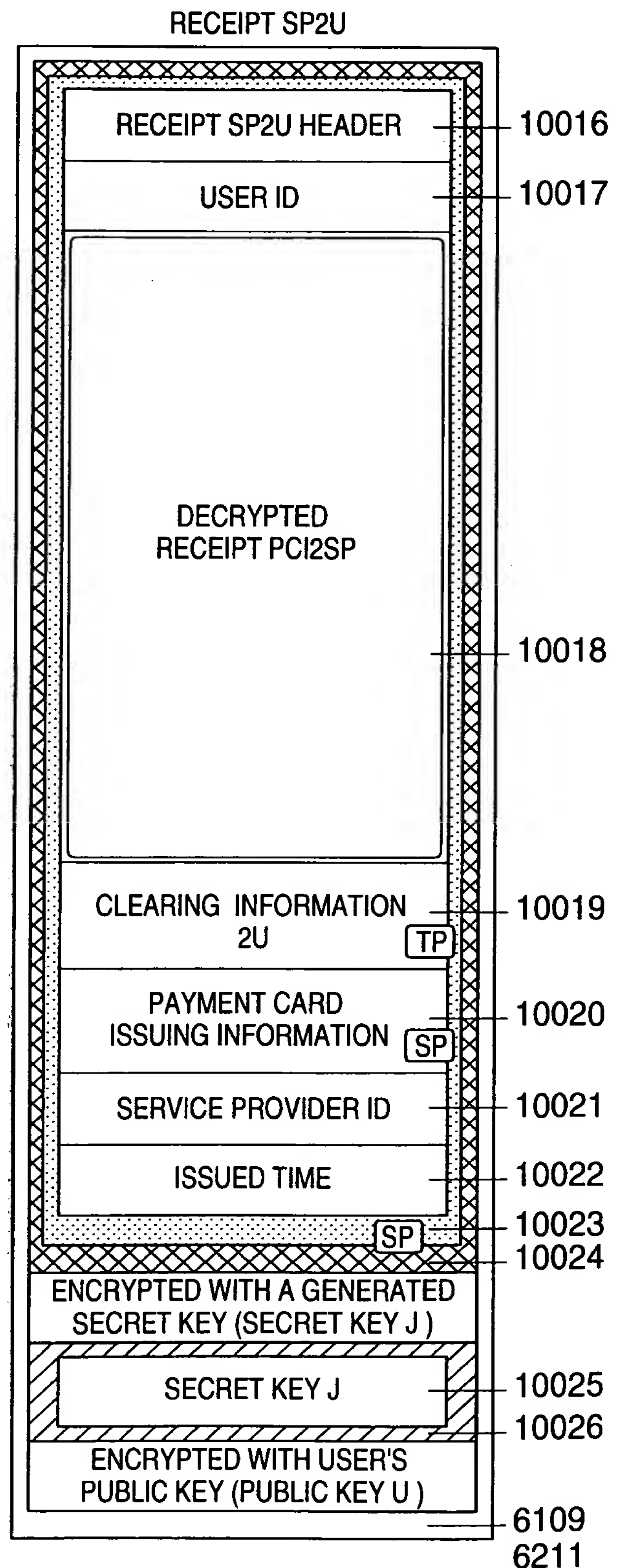


FIG.101A

## TELEPHONE CARD PURCHASE ORDER U2SP

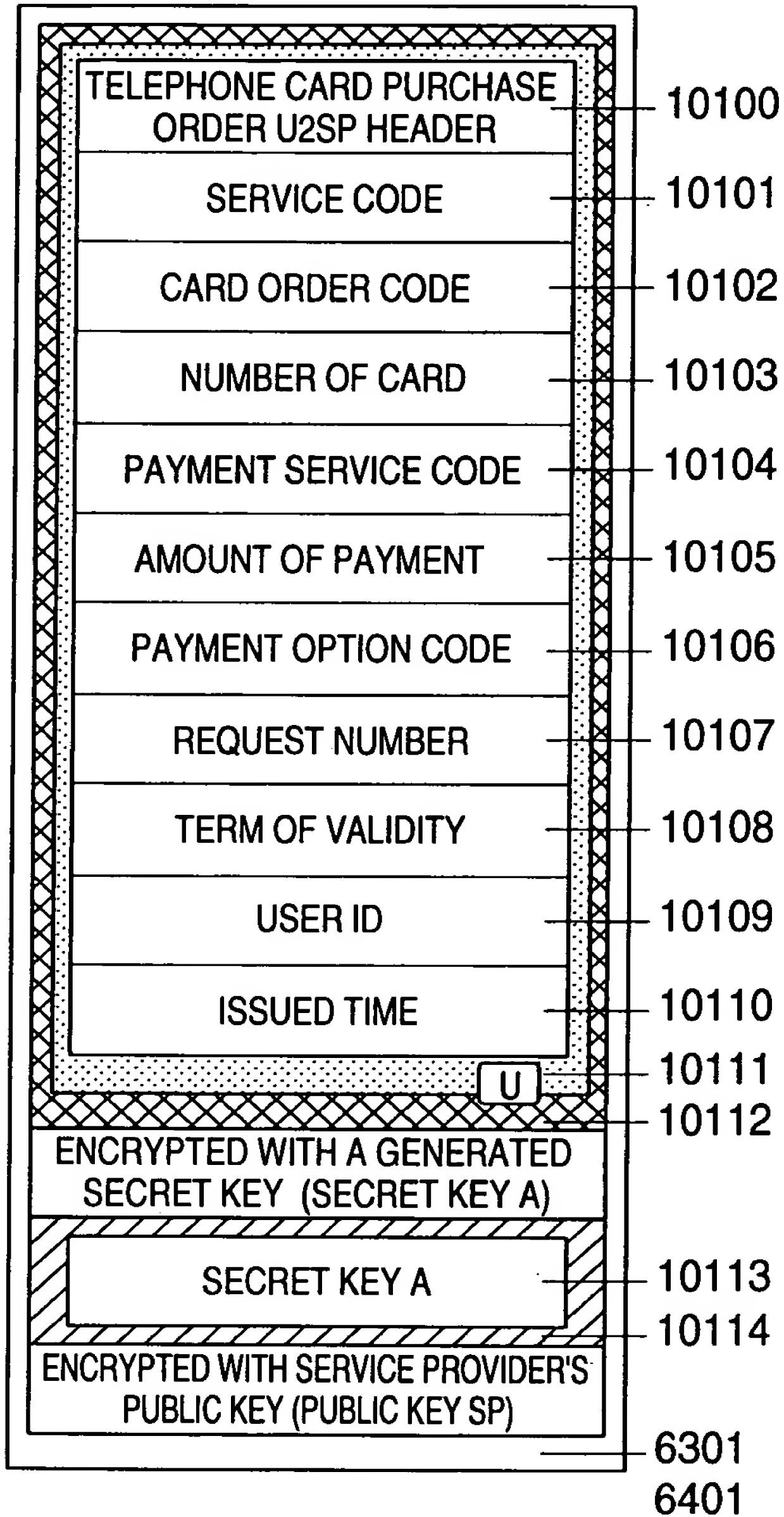


FIG.101B

## TELEPHONE CARD PURCHASE ORDER SP2TCI

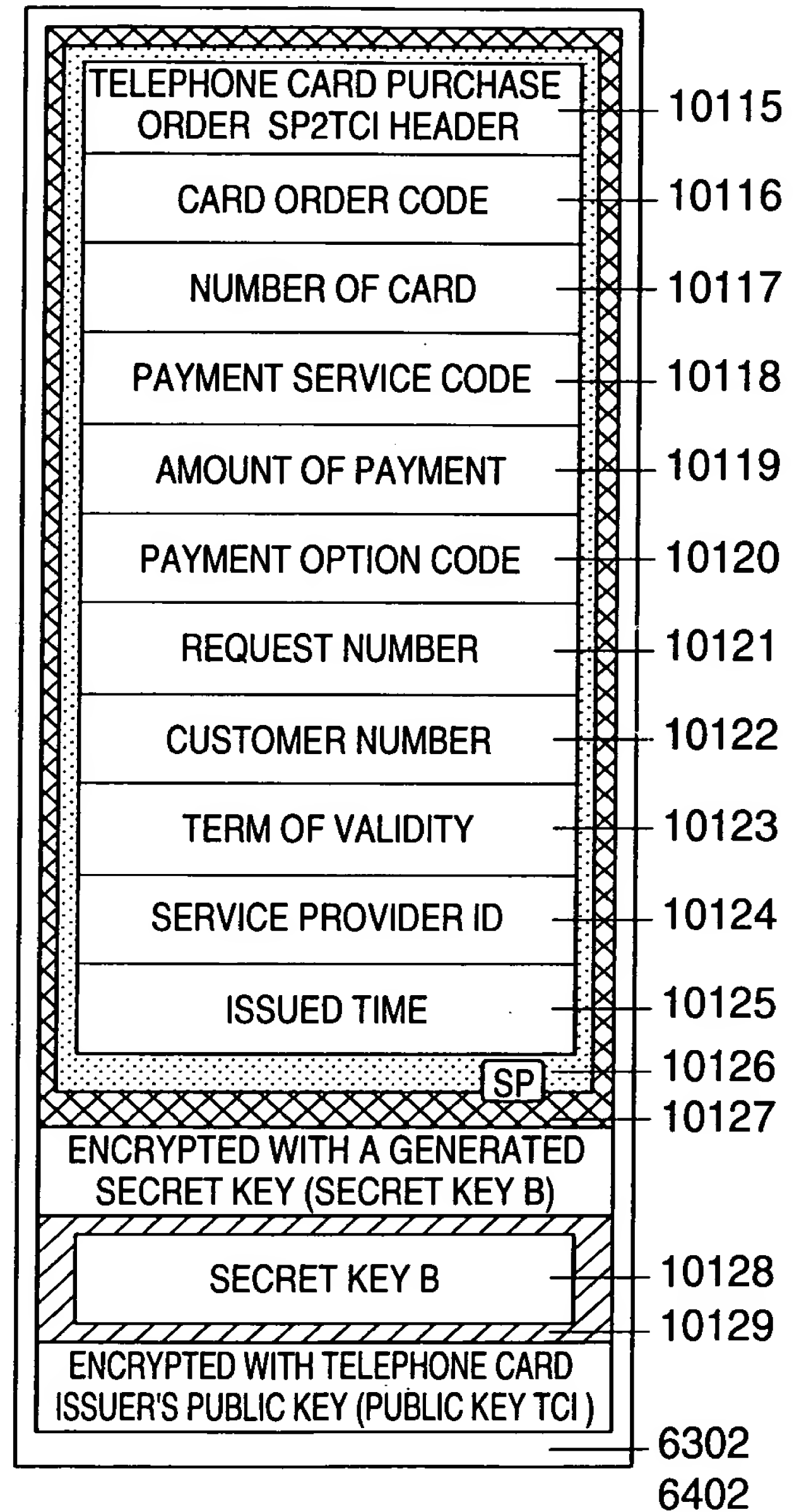




FIG. 102A

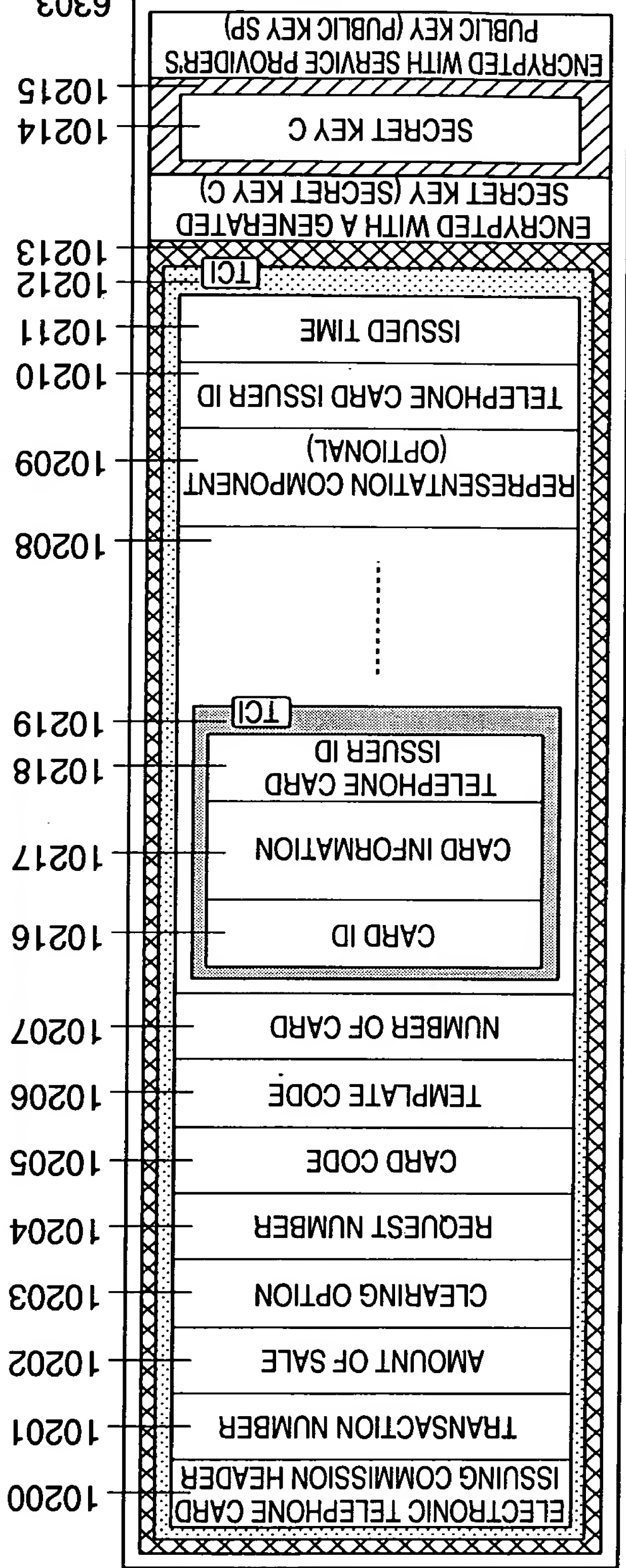


FIG. 102B

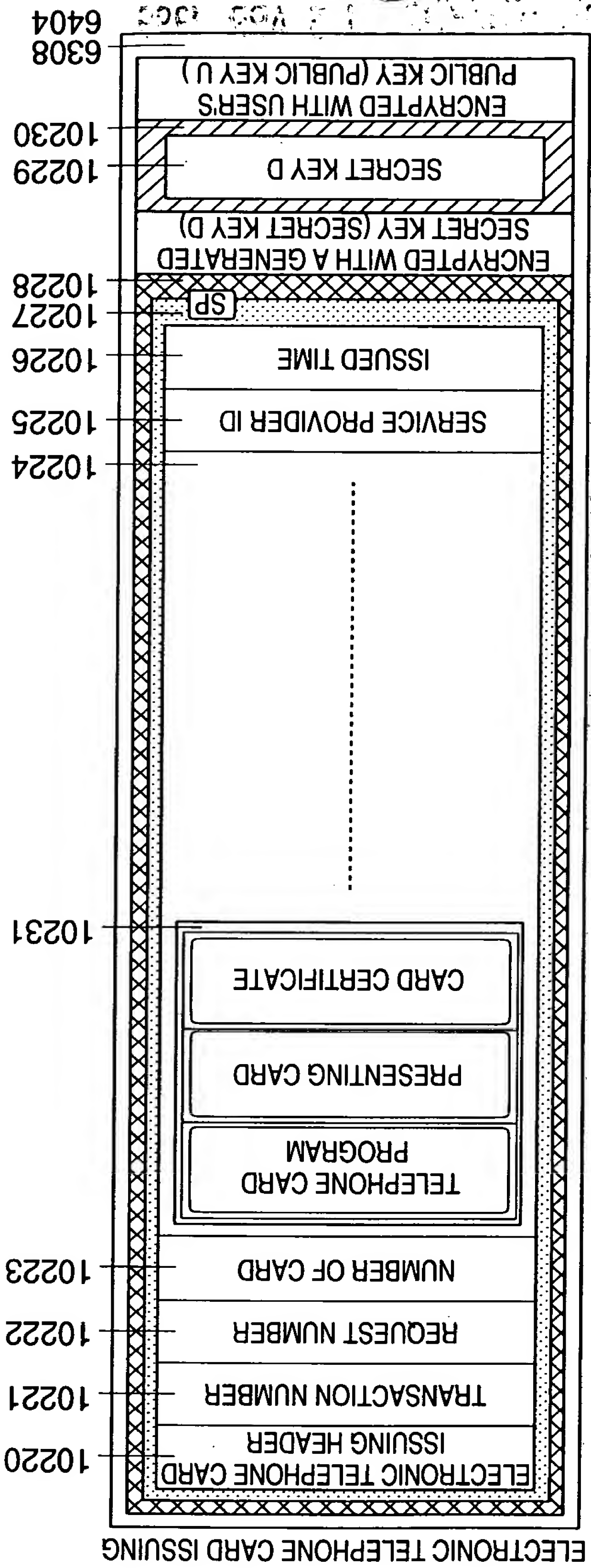
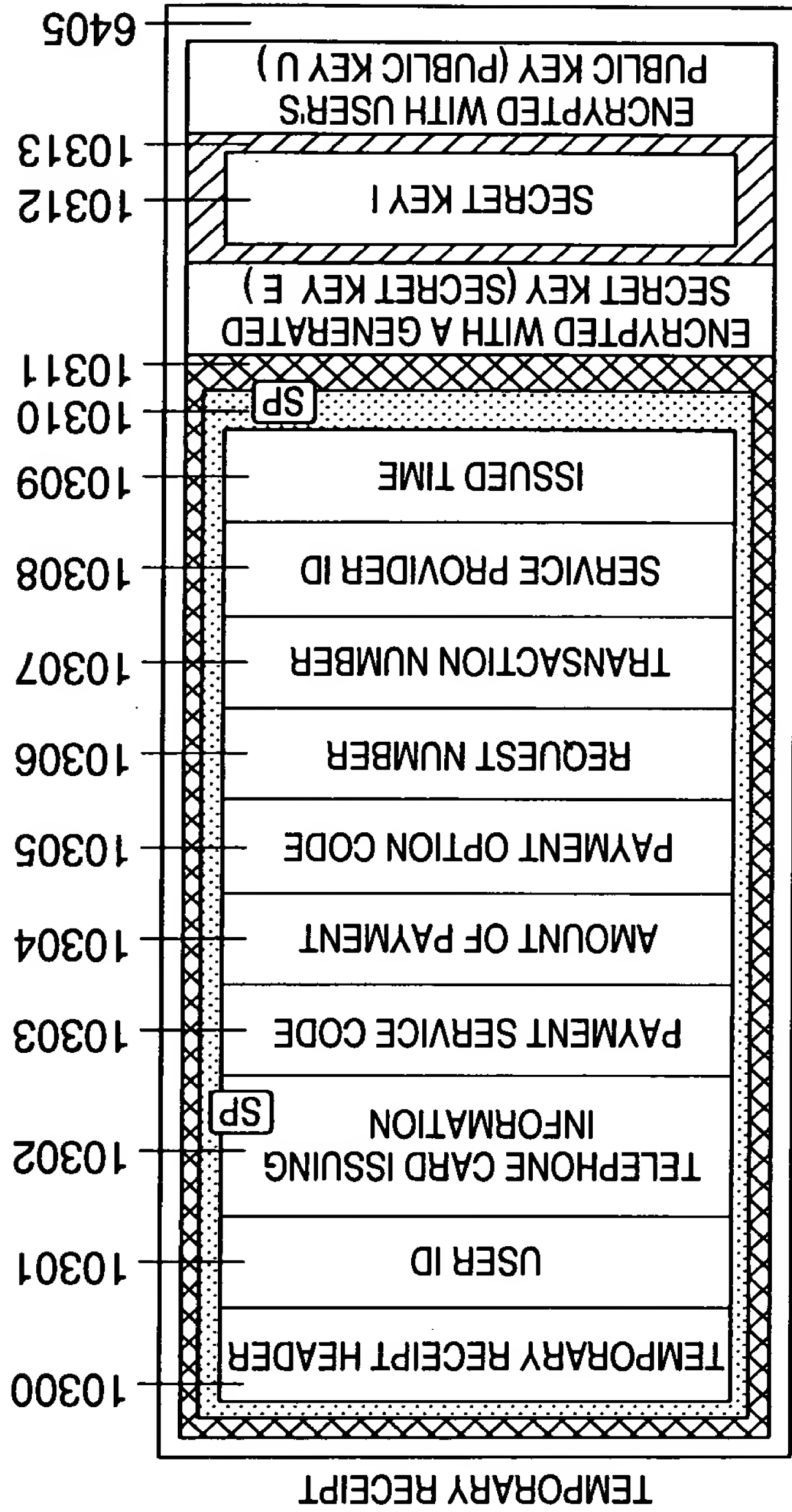


FIG. 103A



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FIG. 103B

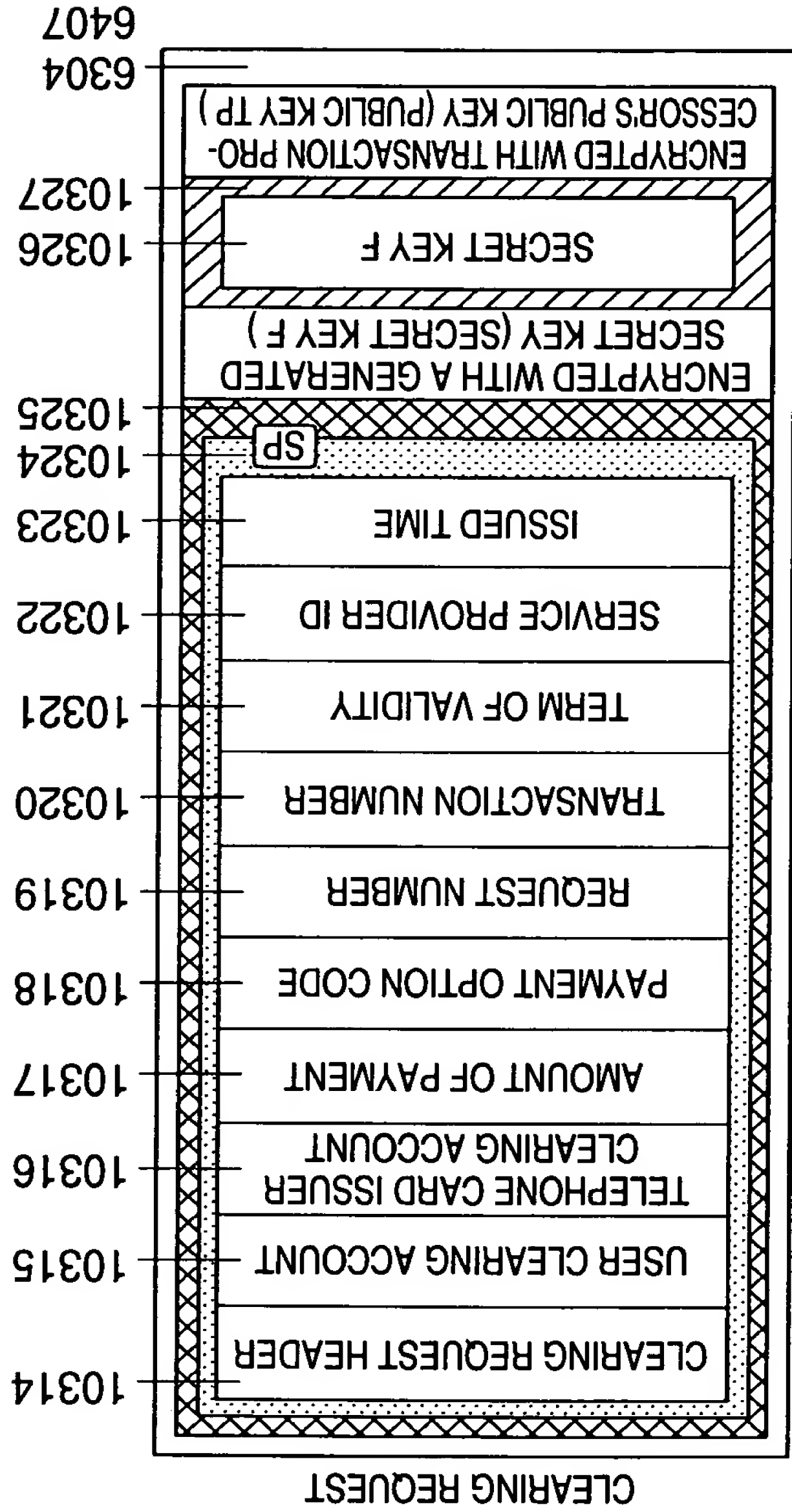


FIG.104A

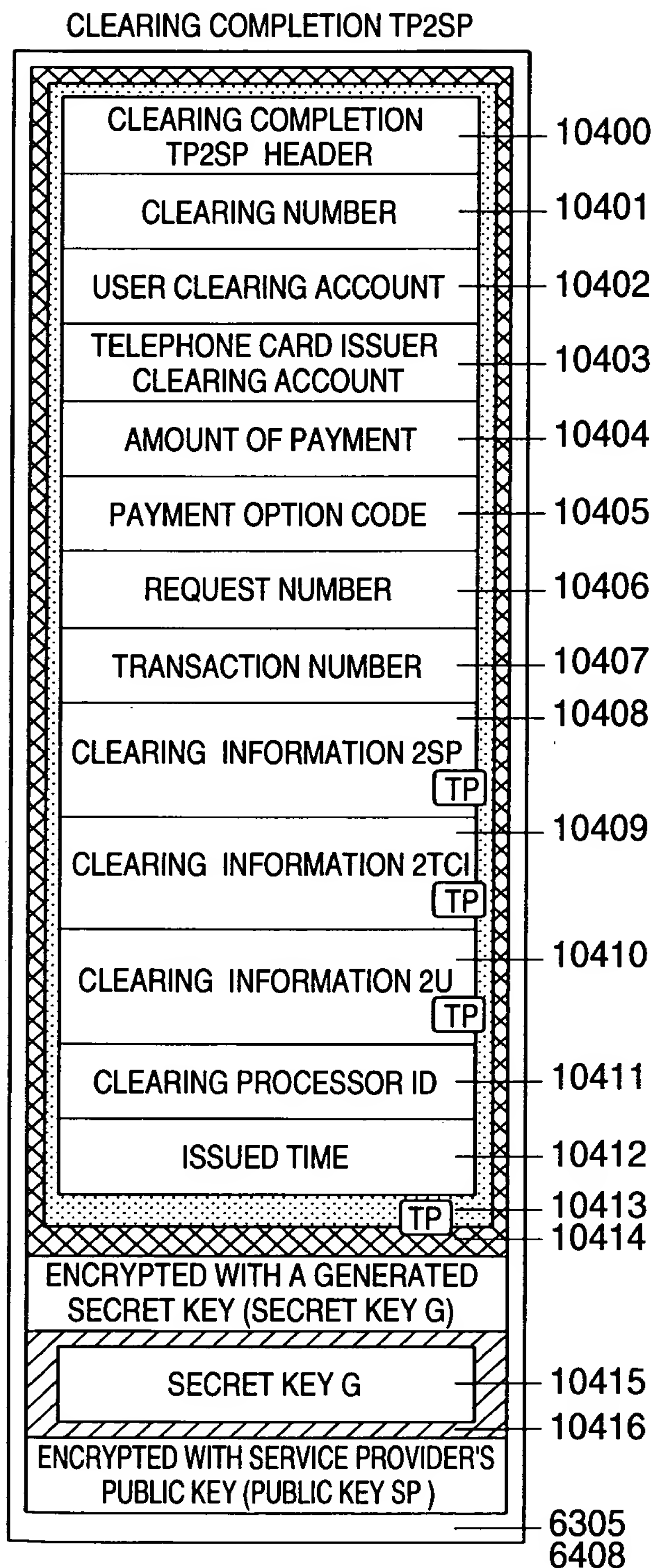
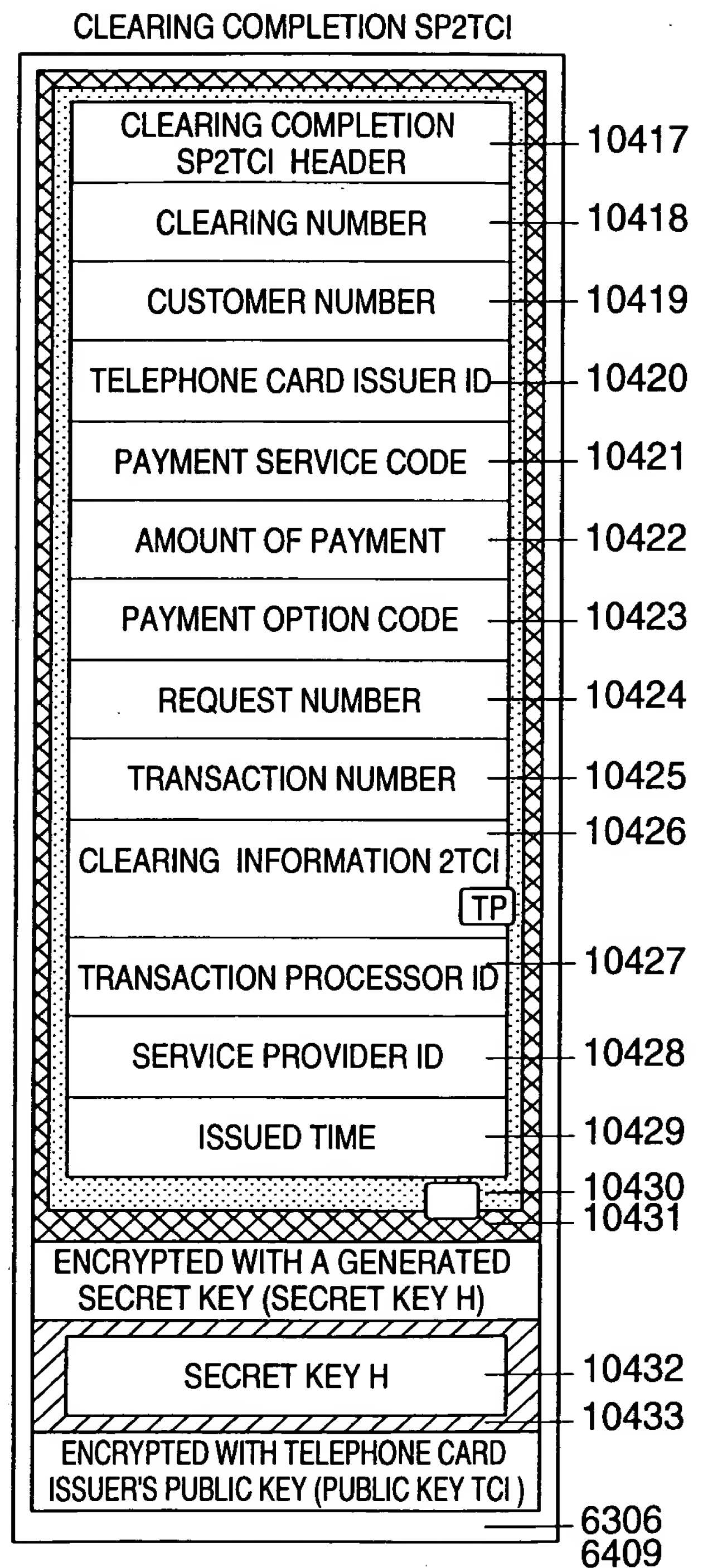


FIG.104B



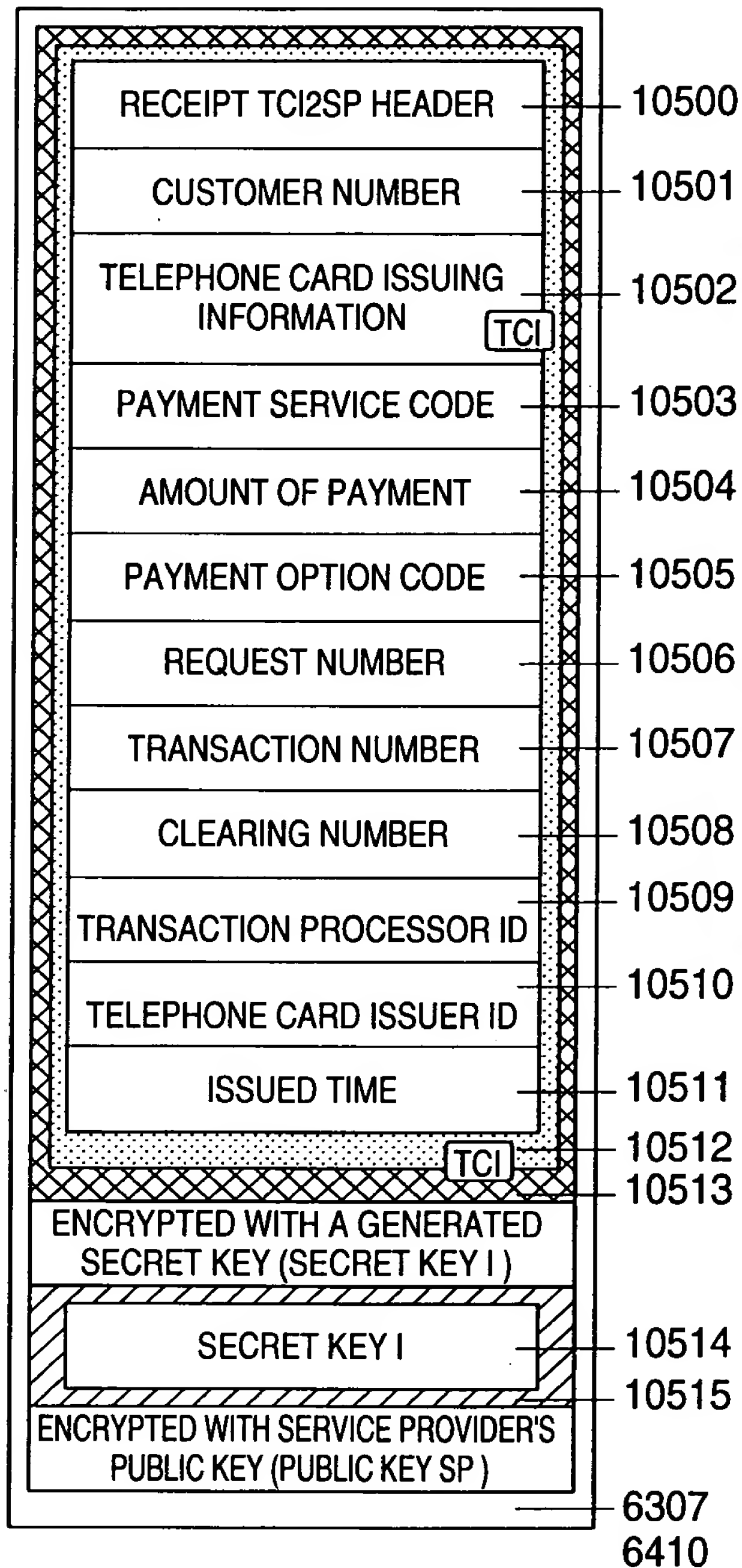


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FIG.105A

FIG.105B

RECEIPT TCI2SP



RECEIPT SP2U

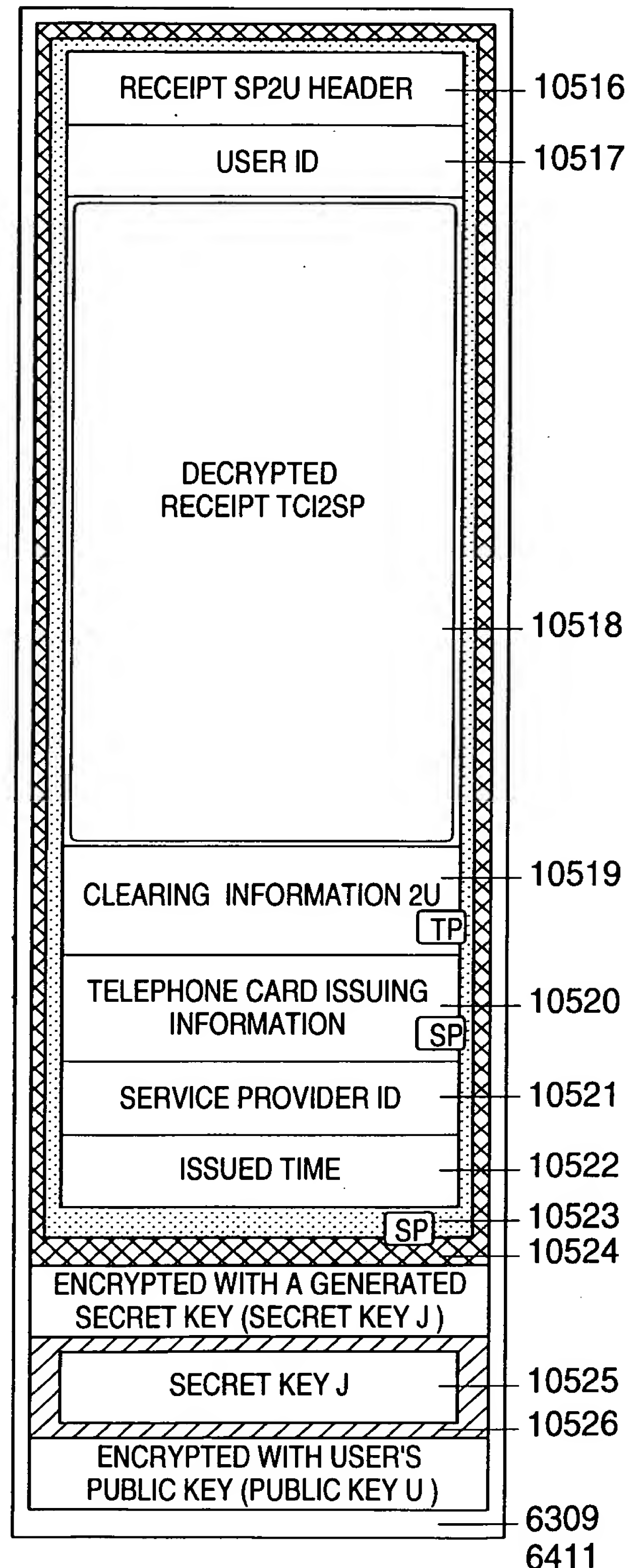


FIG.106A

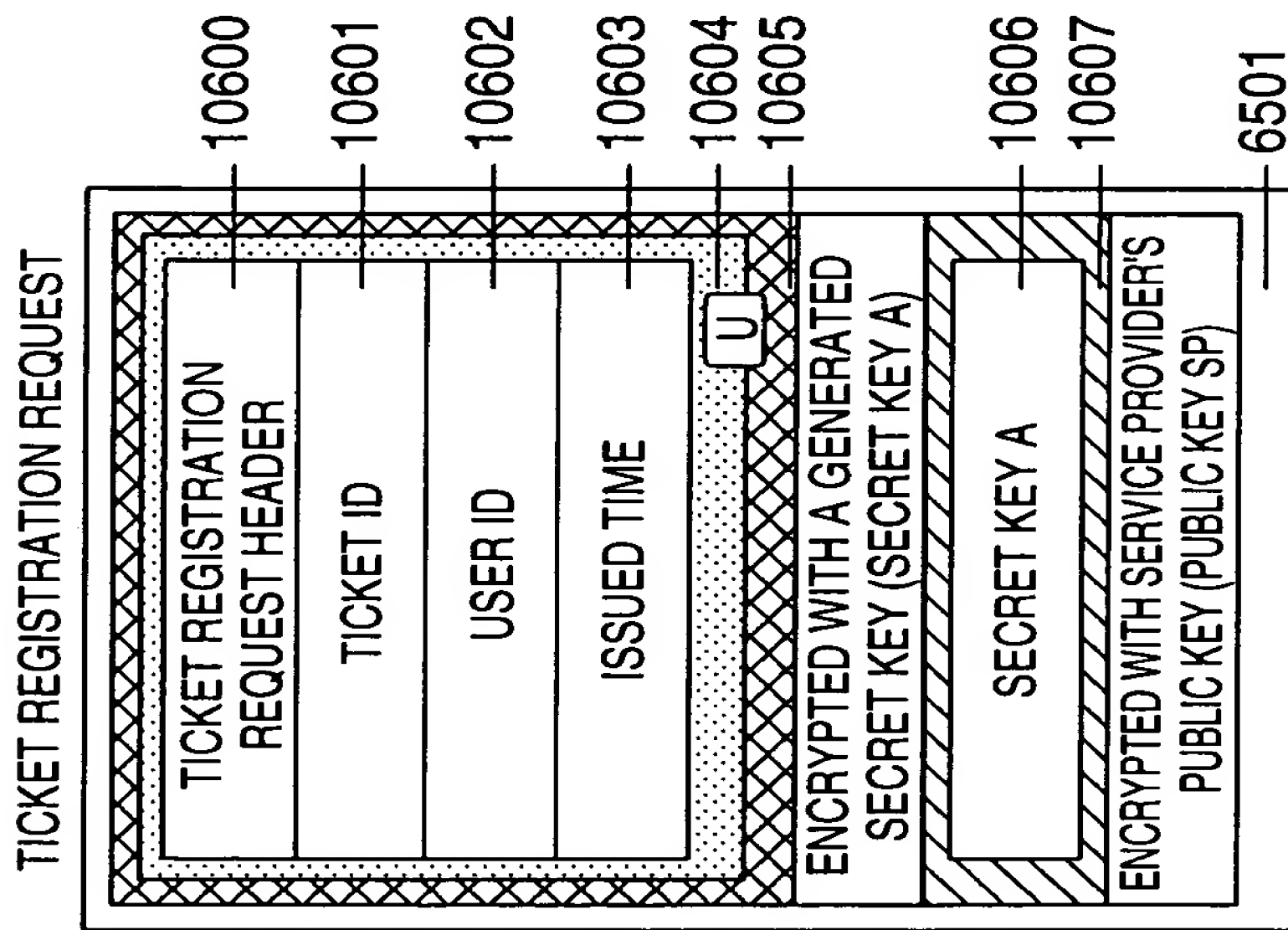


FIG.106B

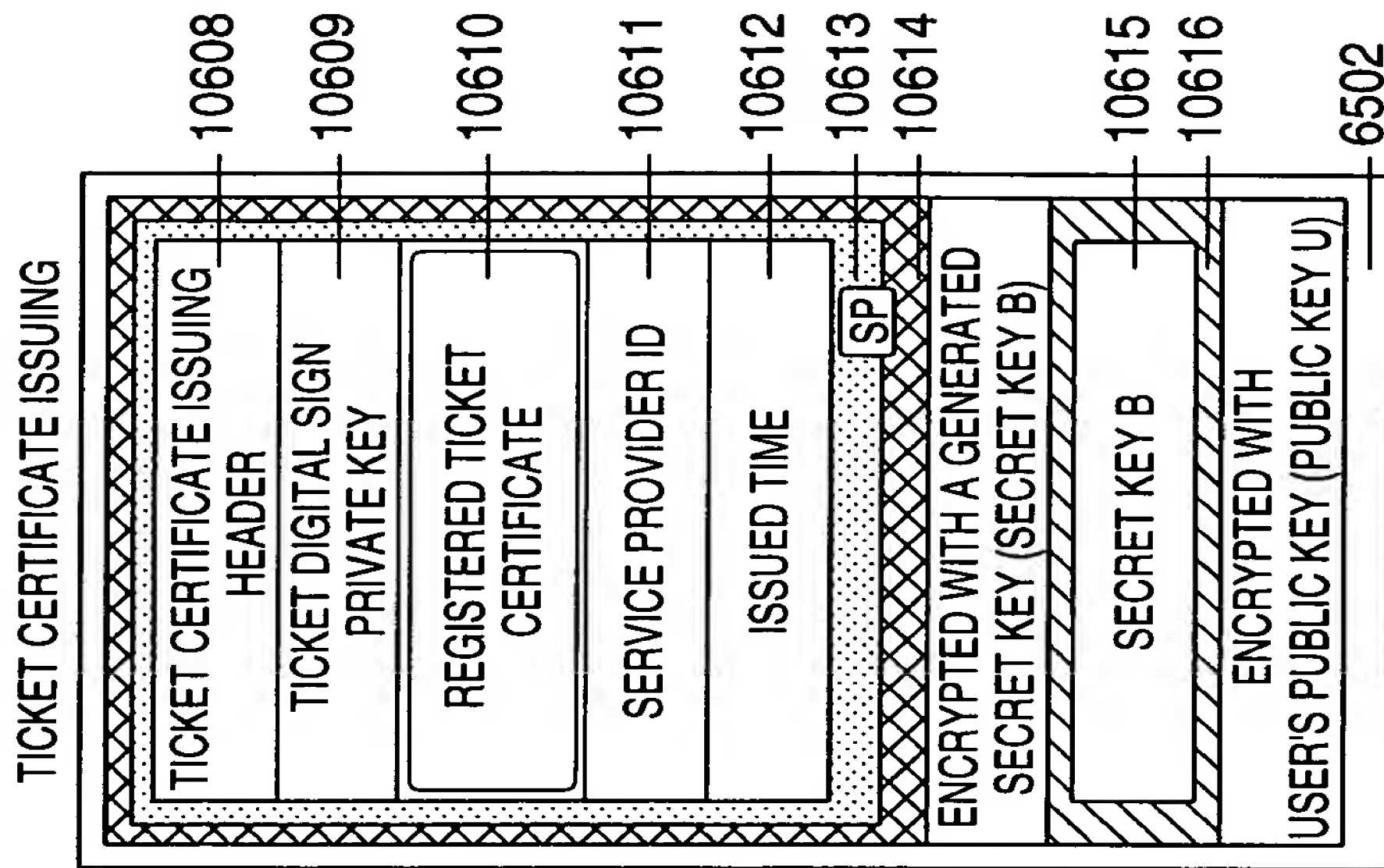


FIG.107A

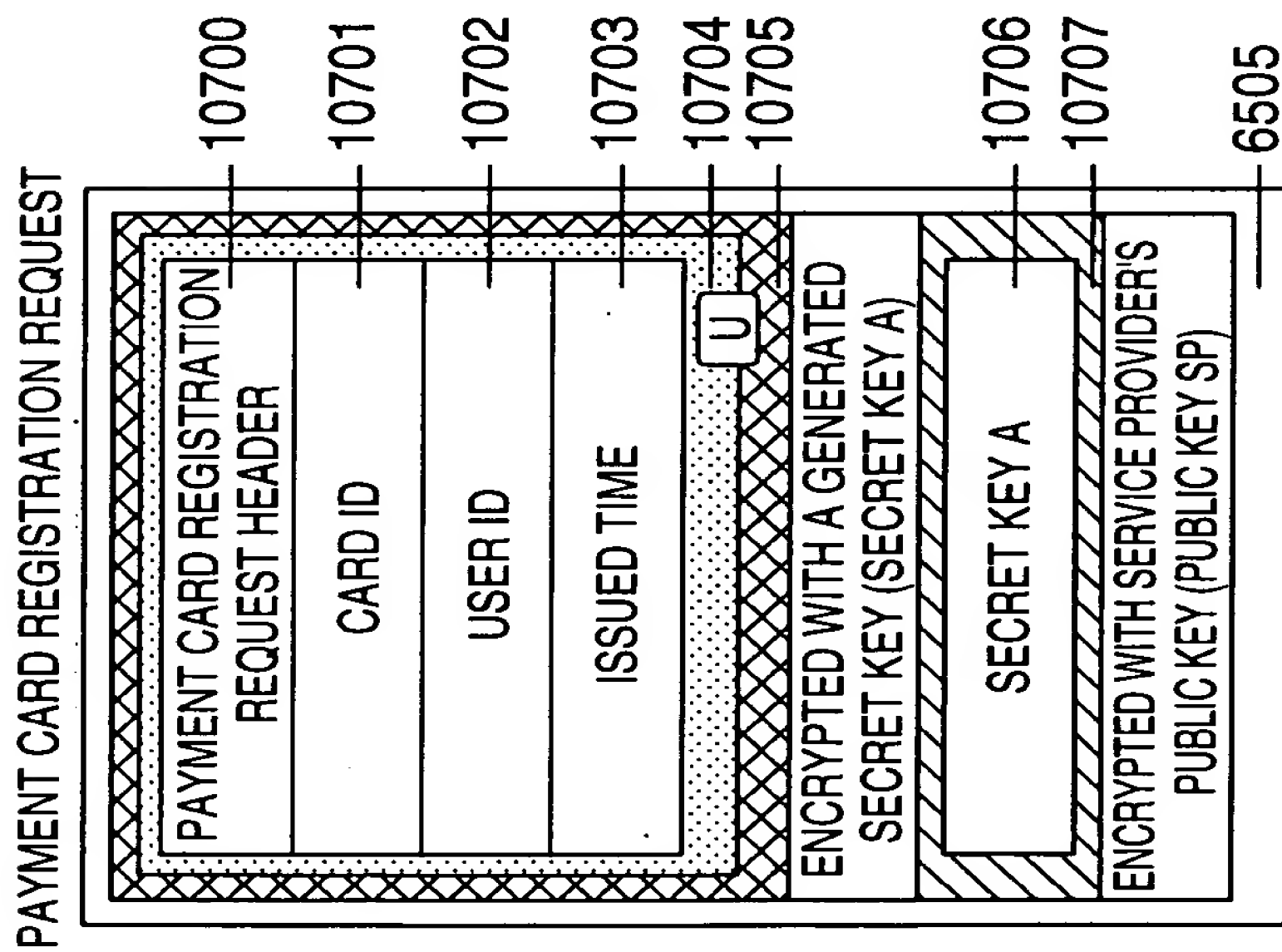


FIG.107B

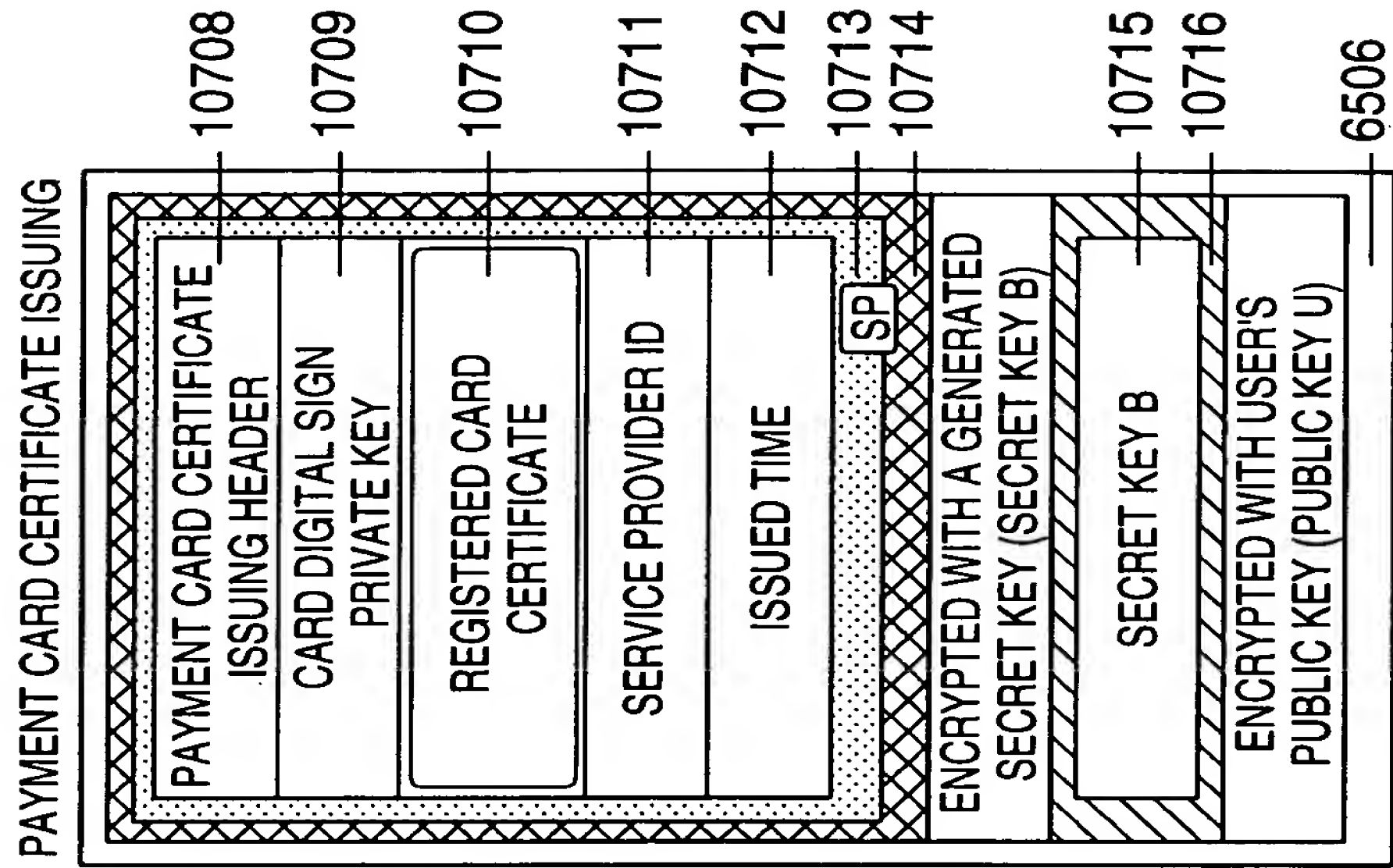


FIG.108A

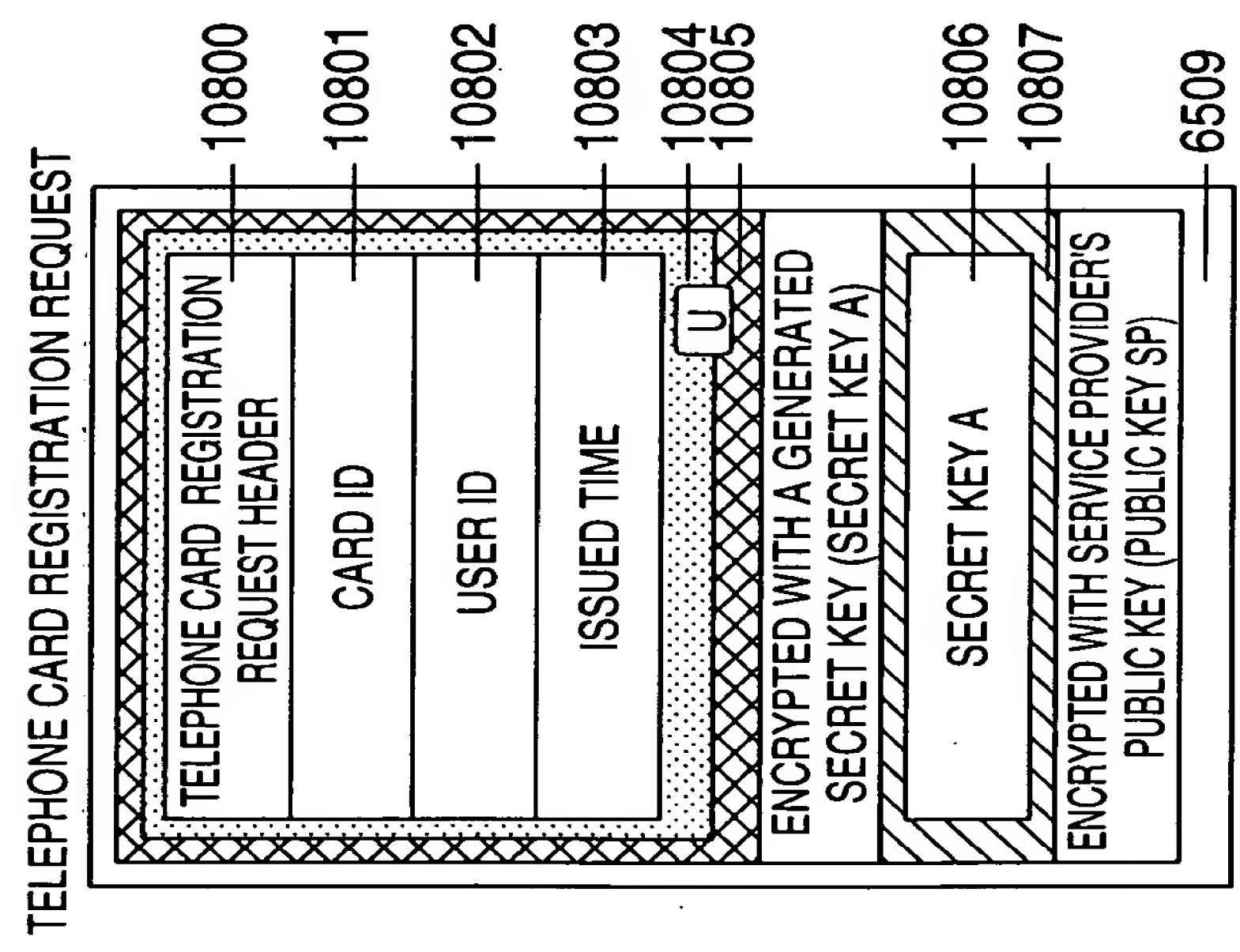


FIG.108B

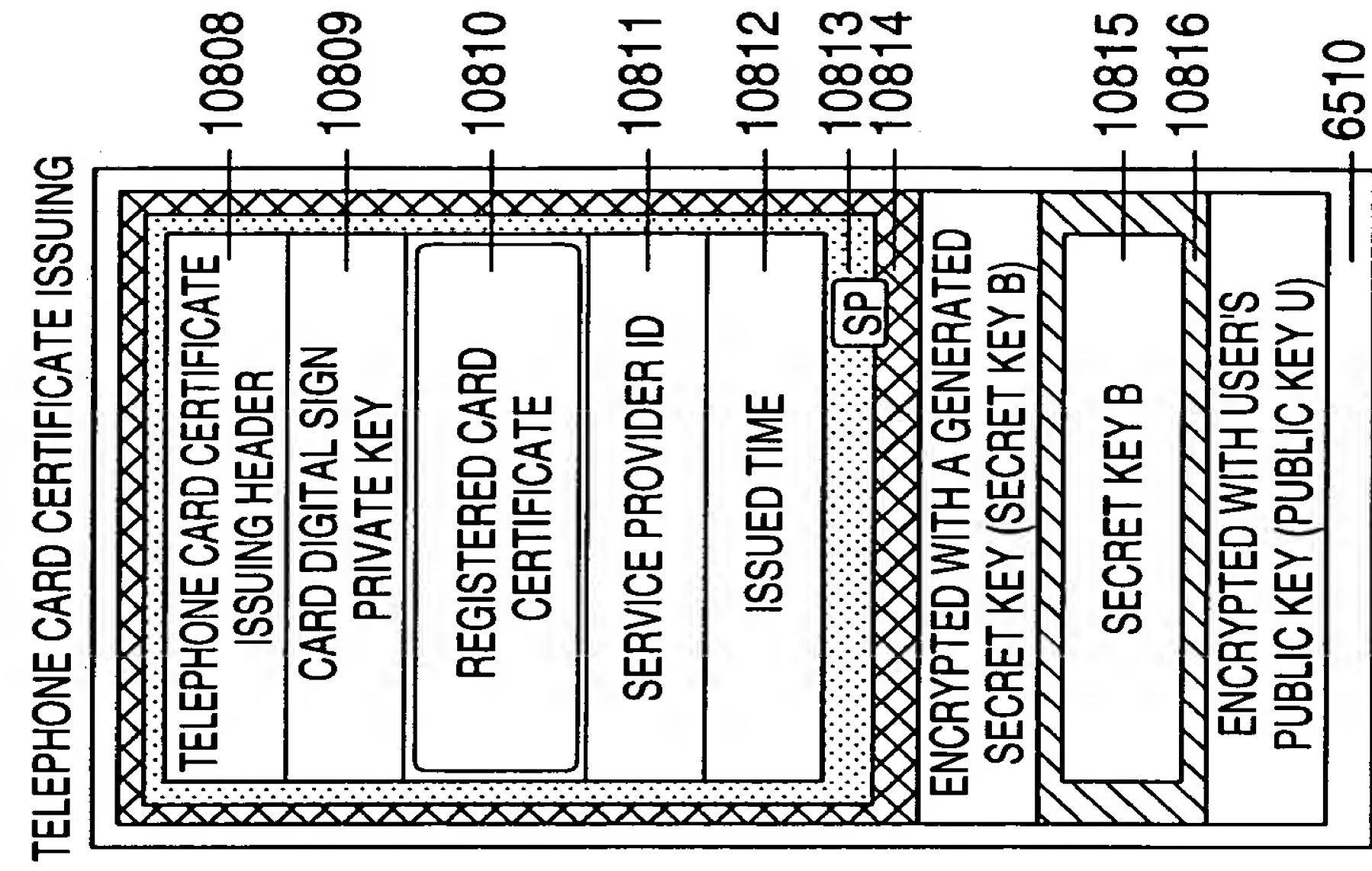


FIG.109A

## SETUP EXAMINING TICKET REQUEST

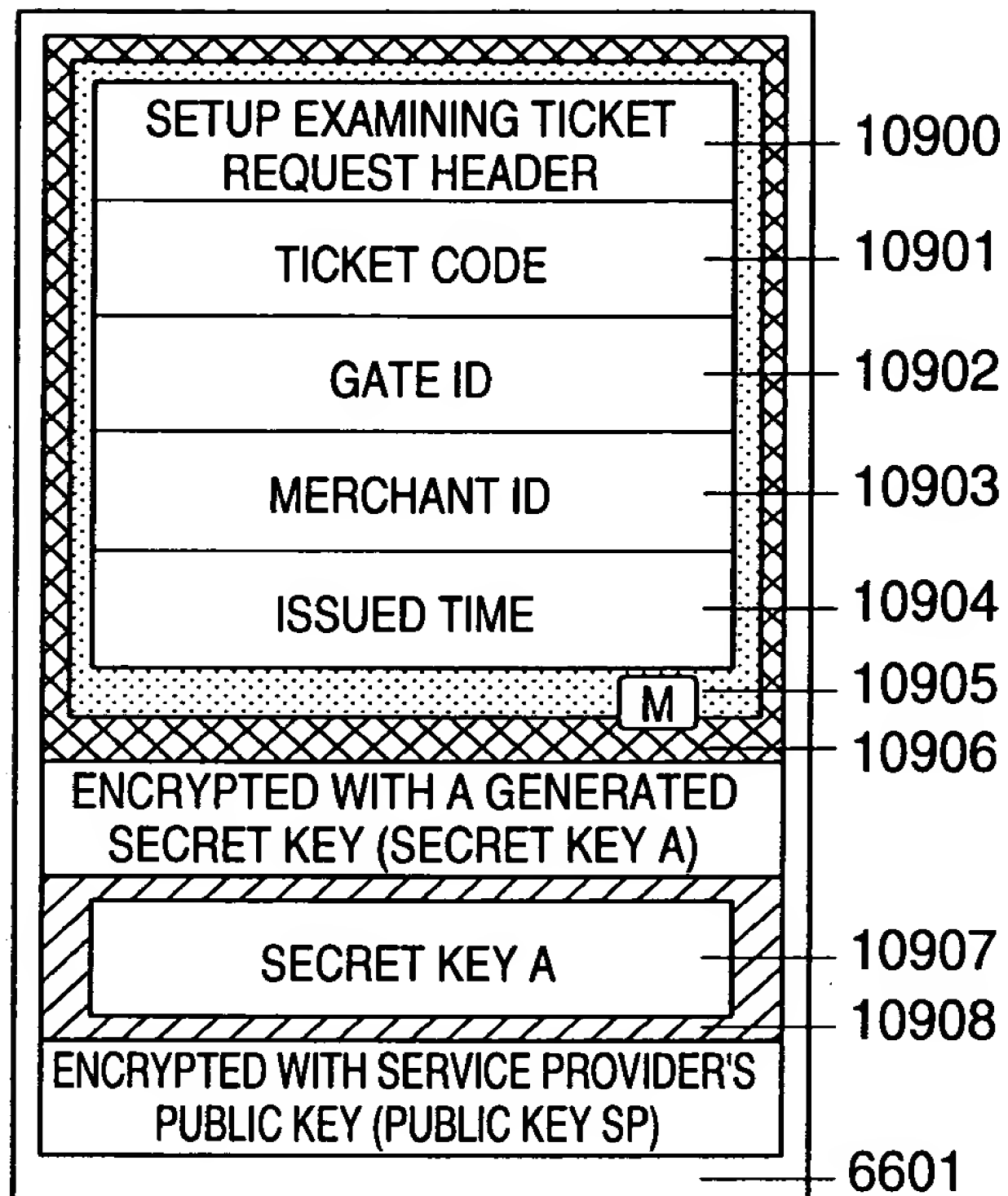
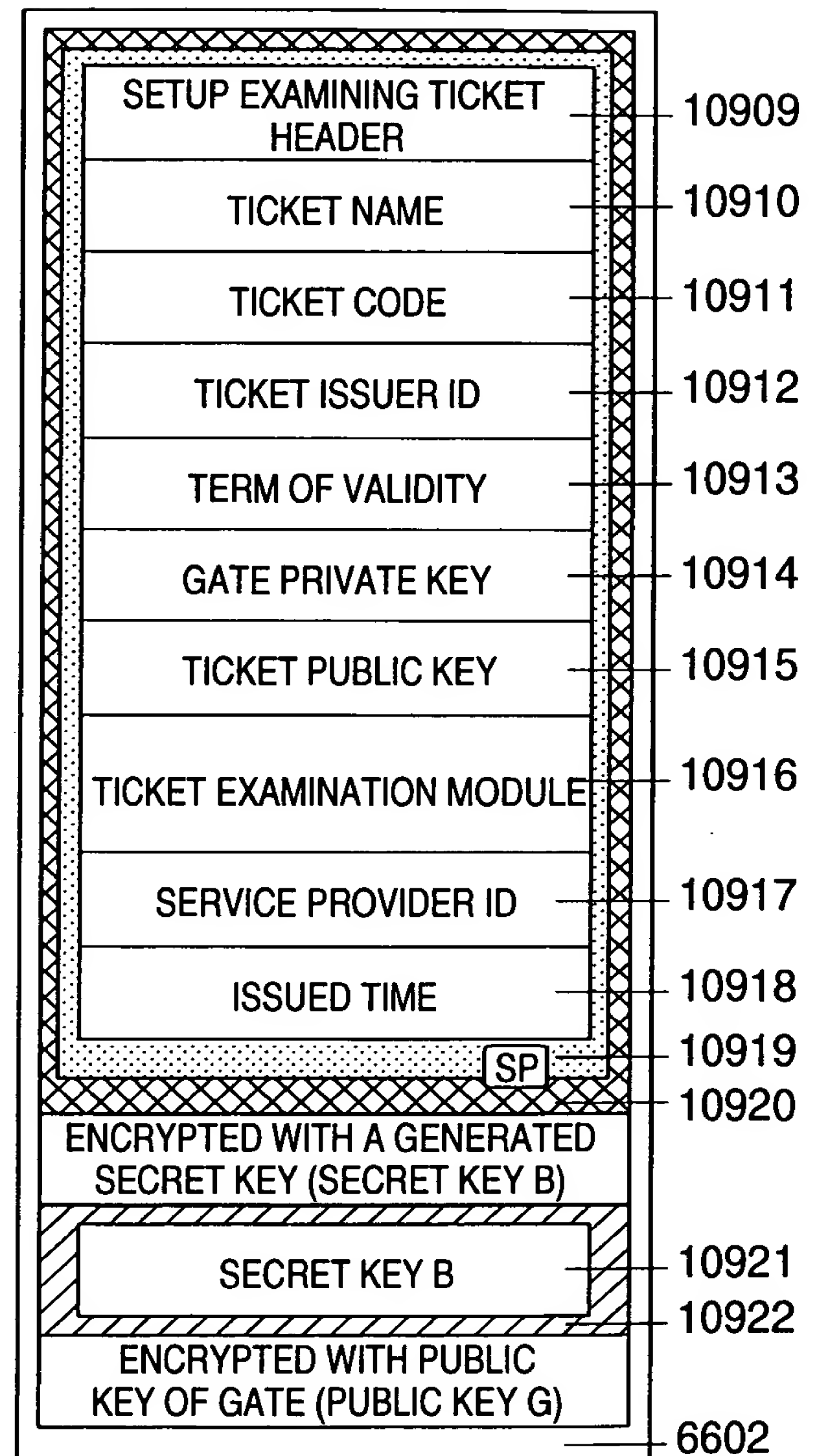


FIG.109B

## SETUP EXAMINING TICKET



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FIG.110A

## TICKET PRESENTATION

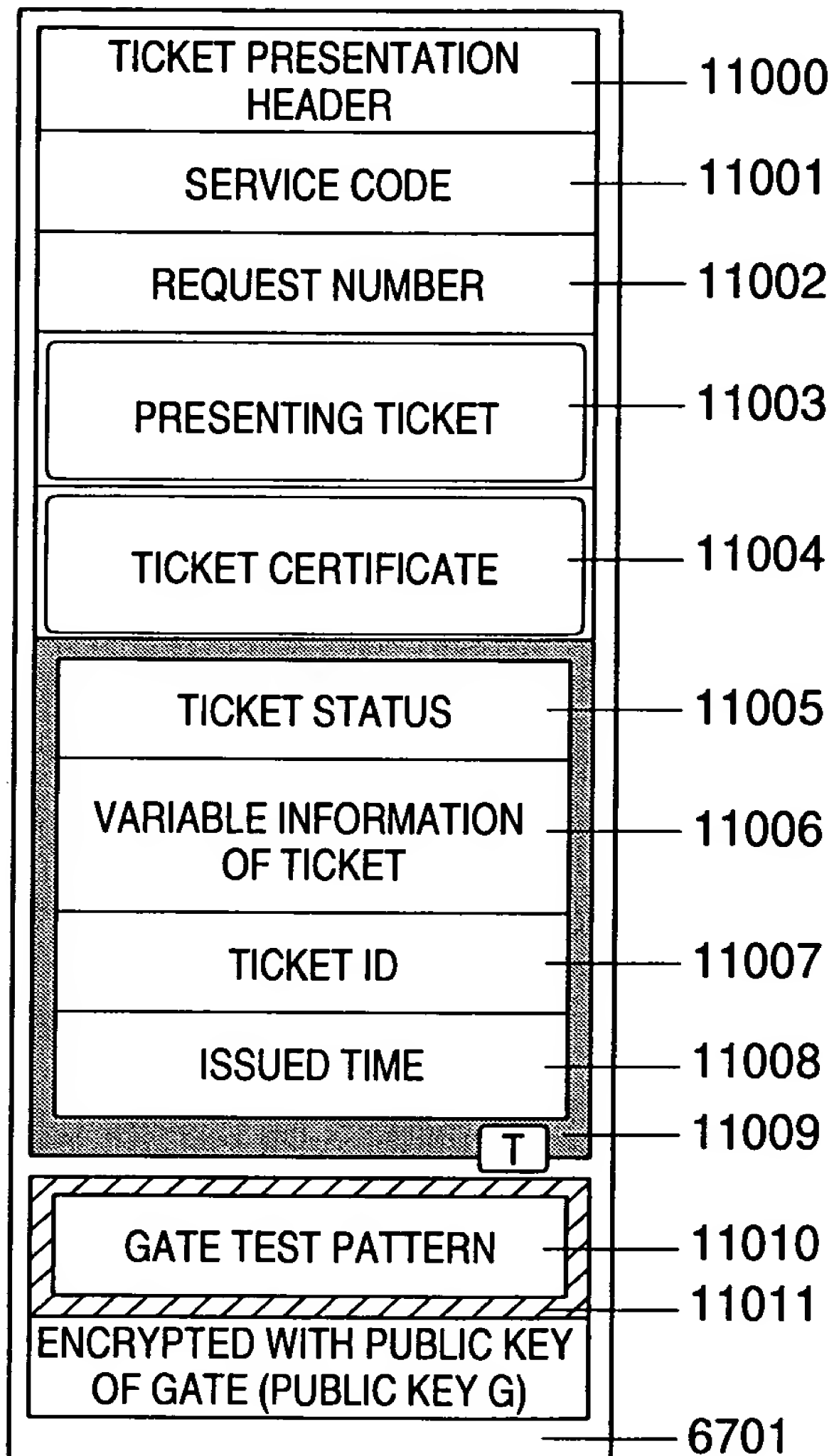


FIG.110B

## TICKET EXAMINATION

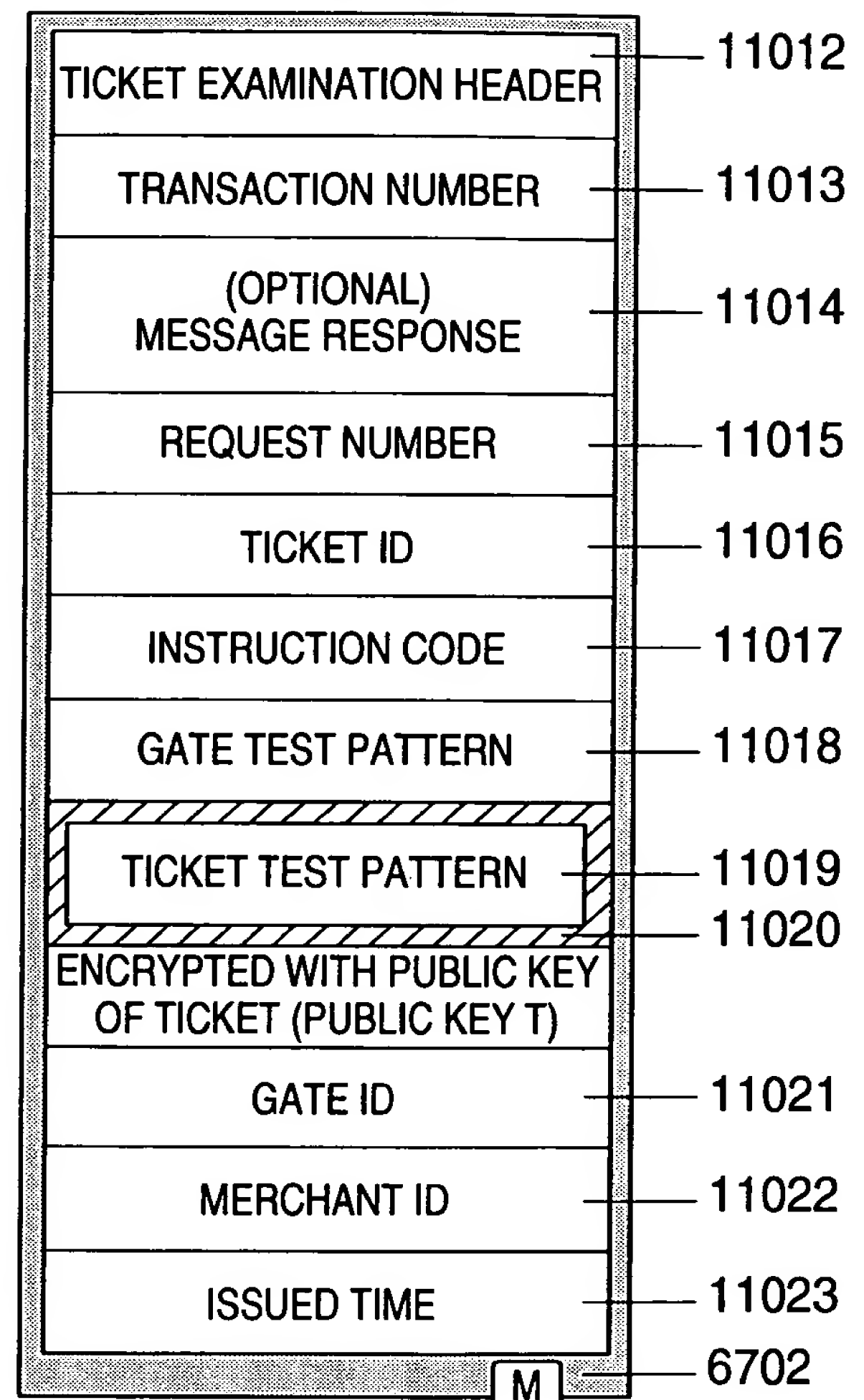






FIG.112A

PAYMENT OFFER

PAYMENT OFFER HEADER	11200
SERVICE CODE	11201
REQUEST NUMBER	11202
AMOUNT OF PAYMENT	11203
PRESENTING CARD	11204
CARD CERTIFICATE	11205
CARD STATUS	11206
AMOUNT OF STORED VALUE	11207
CARD ID	11208
ISSUED TIME	11209
C	11210
ACCOUNTING MACHINE TEST PATTERN	11211
ENCRYPTED WITH PUBLIC KEY OF ACCOUNTING MACHINE (PUBLIC KEY AM)	11212
6805	6907

FIG.112B

PAYMENT OFFER RESPONSE

PAYMENT OFFER RESPONSE HEADER	11213
TRANSACTION NUMBER	11214
(OPTIONAL) MESSAGE RESPONSE	11215
REQUEST NUMBER	11216
CARD ID	11217
INSTRUCTION CODE	11218
AMOUNT OF SALE	11219
ACCOUNTING MACHINE TEST PATTERN	11220
CARD TEST PATTERN	11221
ENCRYPTED WITH PUBLIC KEY OF PAYMENT CARD (PUBLIC KEY C)	11222
ACCOUNTING MACHINE ID	11223
MERCHANT ID	11224
ISSUED TIME	11225
M	6806
6908	



FIG.113A

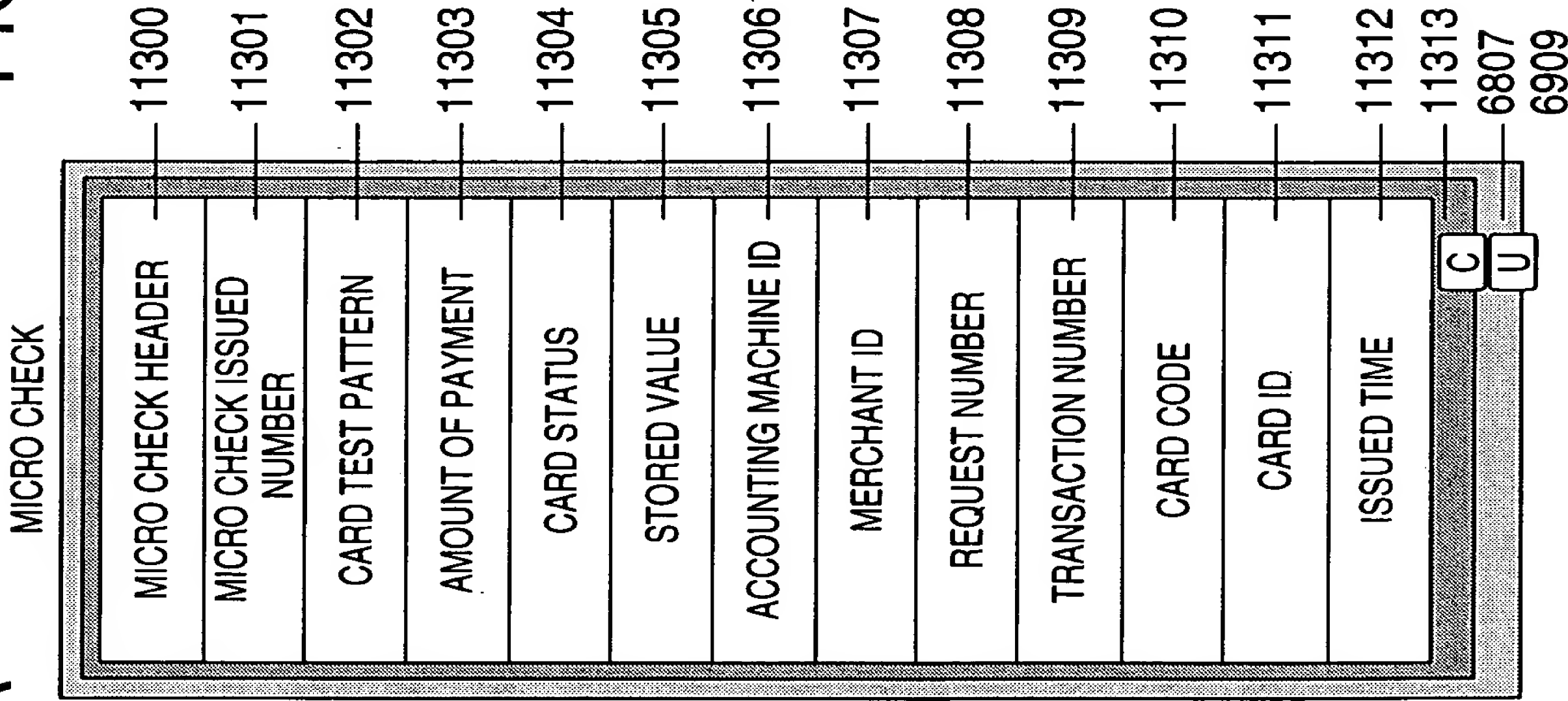


FIG.113B

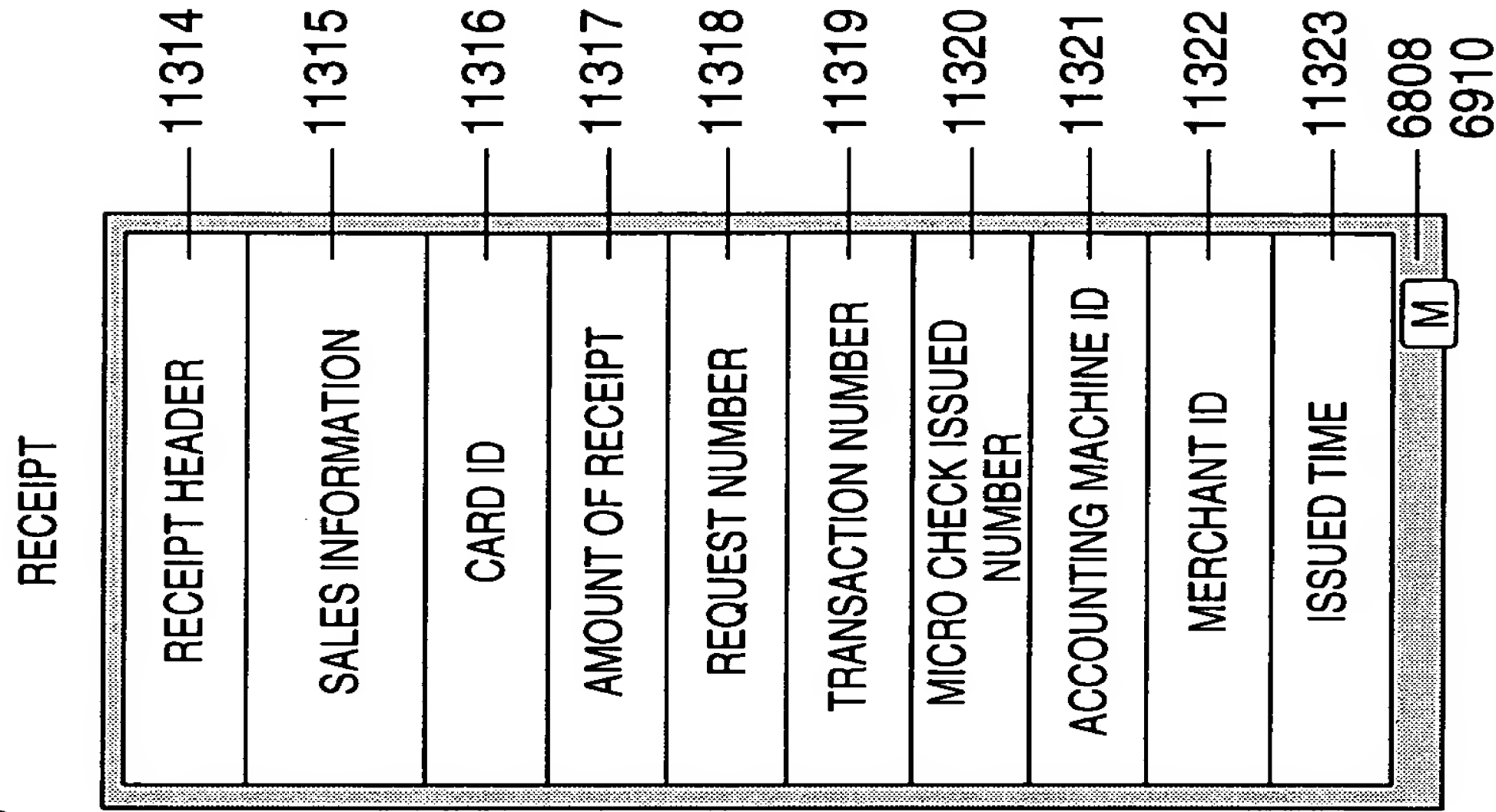


FIG.114A

MICRO CHECK CALL REQUEST

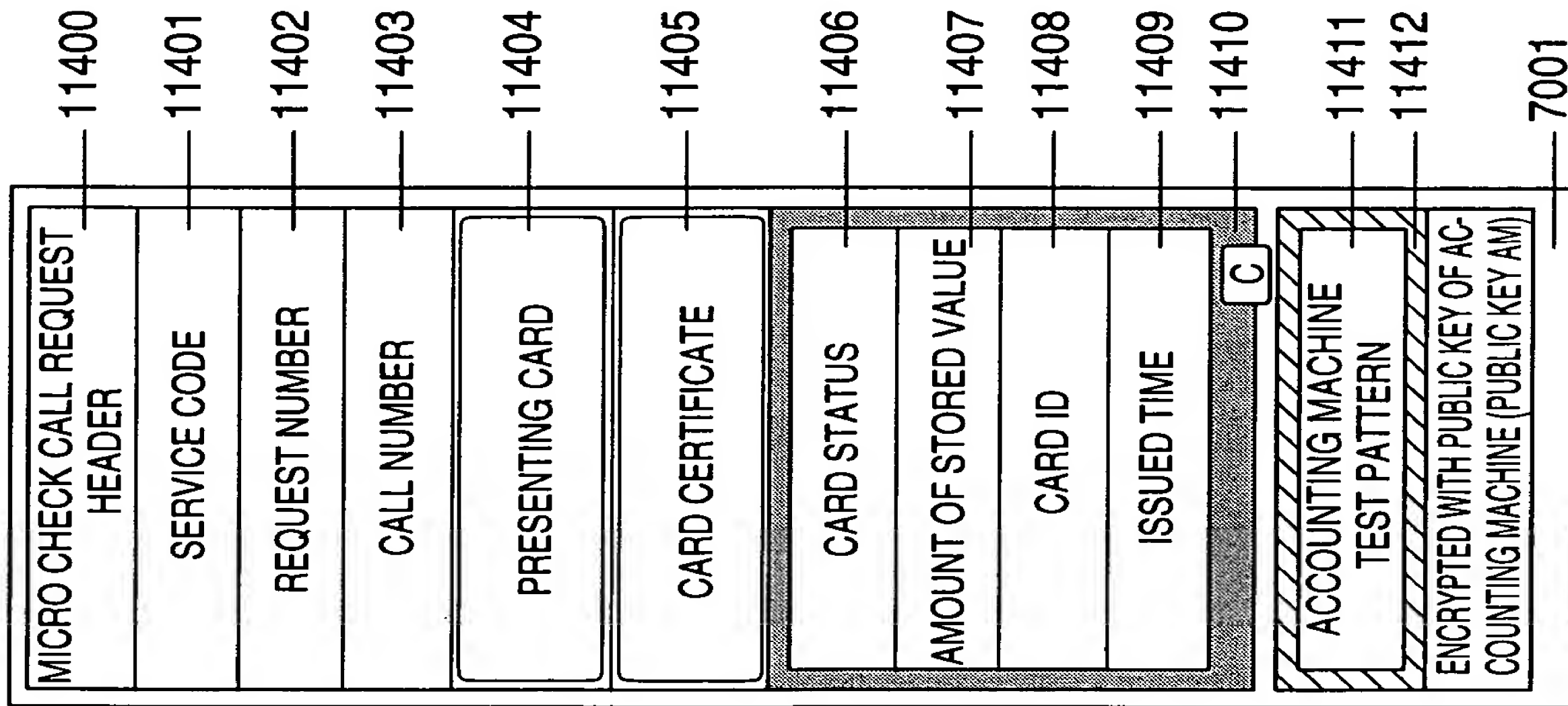


FIG.114B

MICRO CHECK CALL RESPONSE

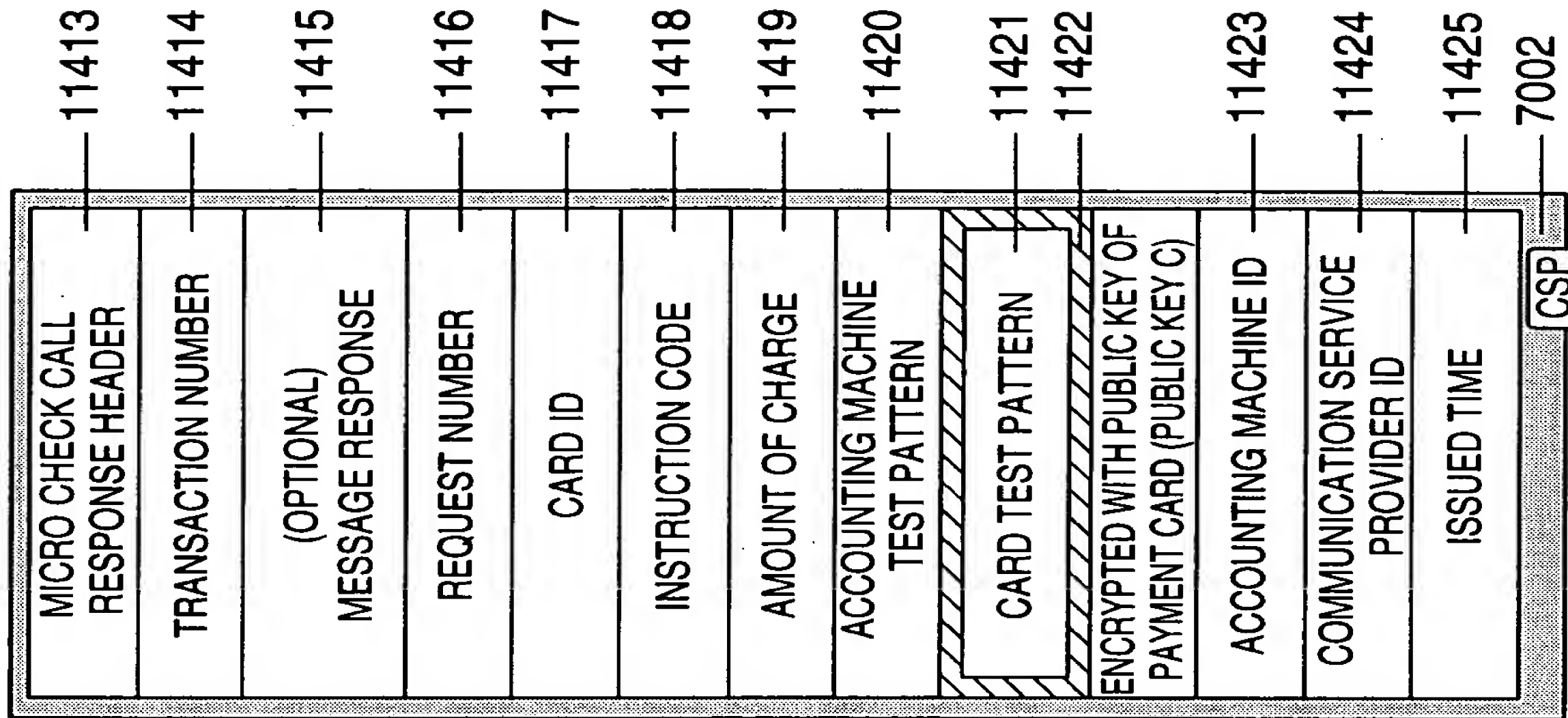


FIG.115A

TELEPHONE MICRO CHECK

TELEPHONE MICRO CHECK HEADER	11500
MICRO CHECK ISSUED NUMBER	11501
CARD TEST PATTERN	11502
AMOUNT OF PAYMENT	11503
CARD STATUS	11504
STORED VALUE	11505
ACCOUNTING MACHINE ID	11506
COMMUNICATION SERVICE PROVIDER ID	11507
REQUEST NUMBER	11508
TRANSACTION NUMBER	11509
CARD CODE	11510
CARD ID	11511
ISSUED TIME	11512
C U	11513
	7003
	7012
	7016

FIG.115B

Receipt

RECEIPT HEADER	11514
PROVIDING SERVICE INFORMATION	11515
CARD ID	11516
AMOUNT OF RECEIPT	11517
REQUEST NUMBER	11518
TRANSACTION NUMBER	11519
MICRO CHECK ISSUED NUMBER	11520
ACCOUNTING MACHINE ID	11521
COMMUNICATION SERVICE PROVIDER ID	11522
ISSUED TIME	11523
CSP	7009
	7013
	7017

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FIG.115C

COMMUNICATION CHARGE

COMMUNICATION CHARGE HEADER	11524
TRANSACTION NUMBER	11525
REQUEST NUMBER	11526
CARD ID	11527
INSTRUCTION CODE	11528
AMOUNT OF CHARGE	11529
ACCOUNTING MACHINE ID	11530
COMMUNICATION SERVICE PROVIDER ID	11531
ISSUED TIME	11532
CSP	7011 7015

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FIG.116A

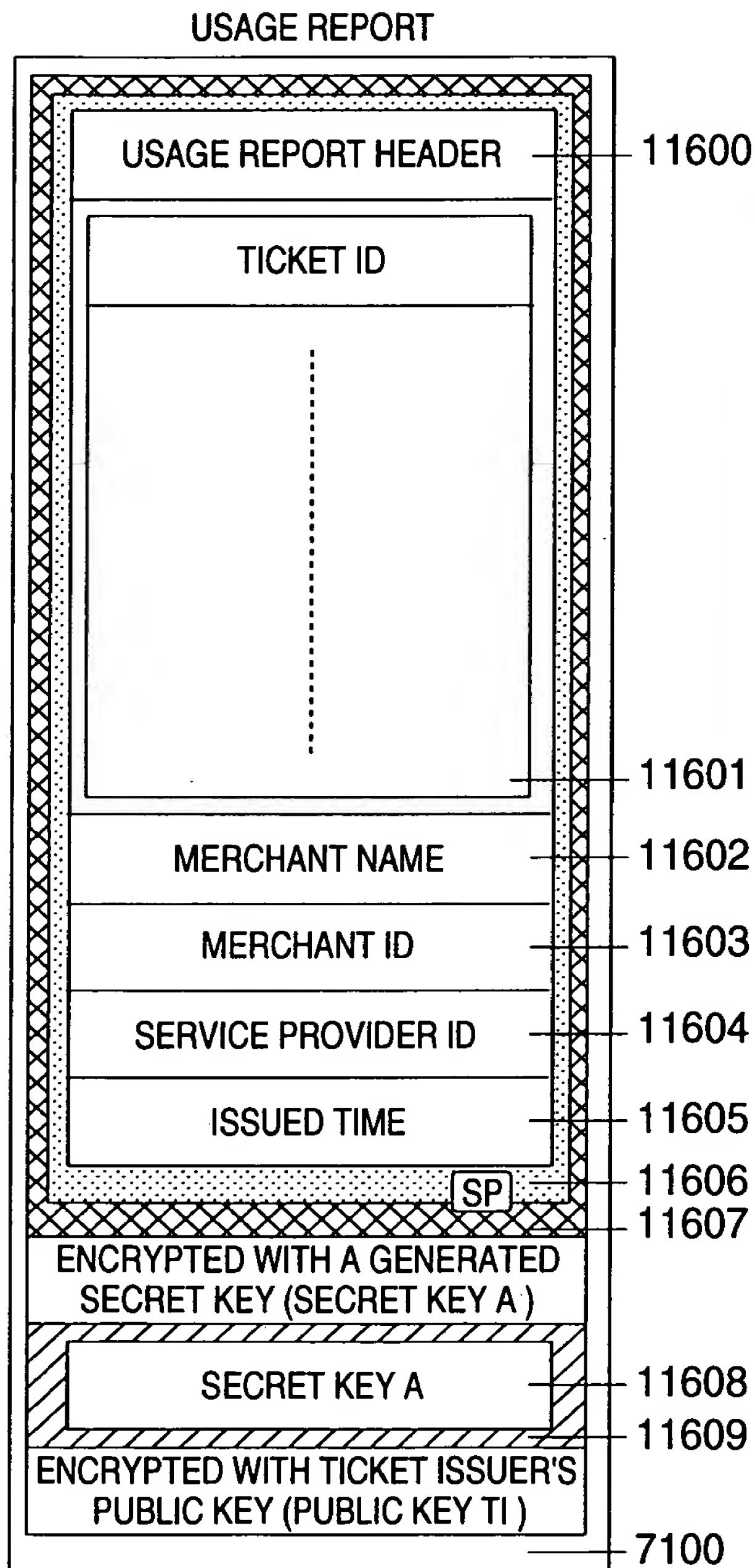
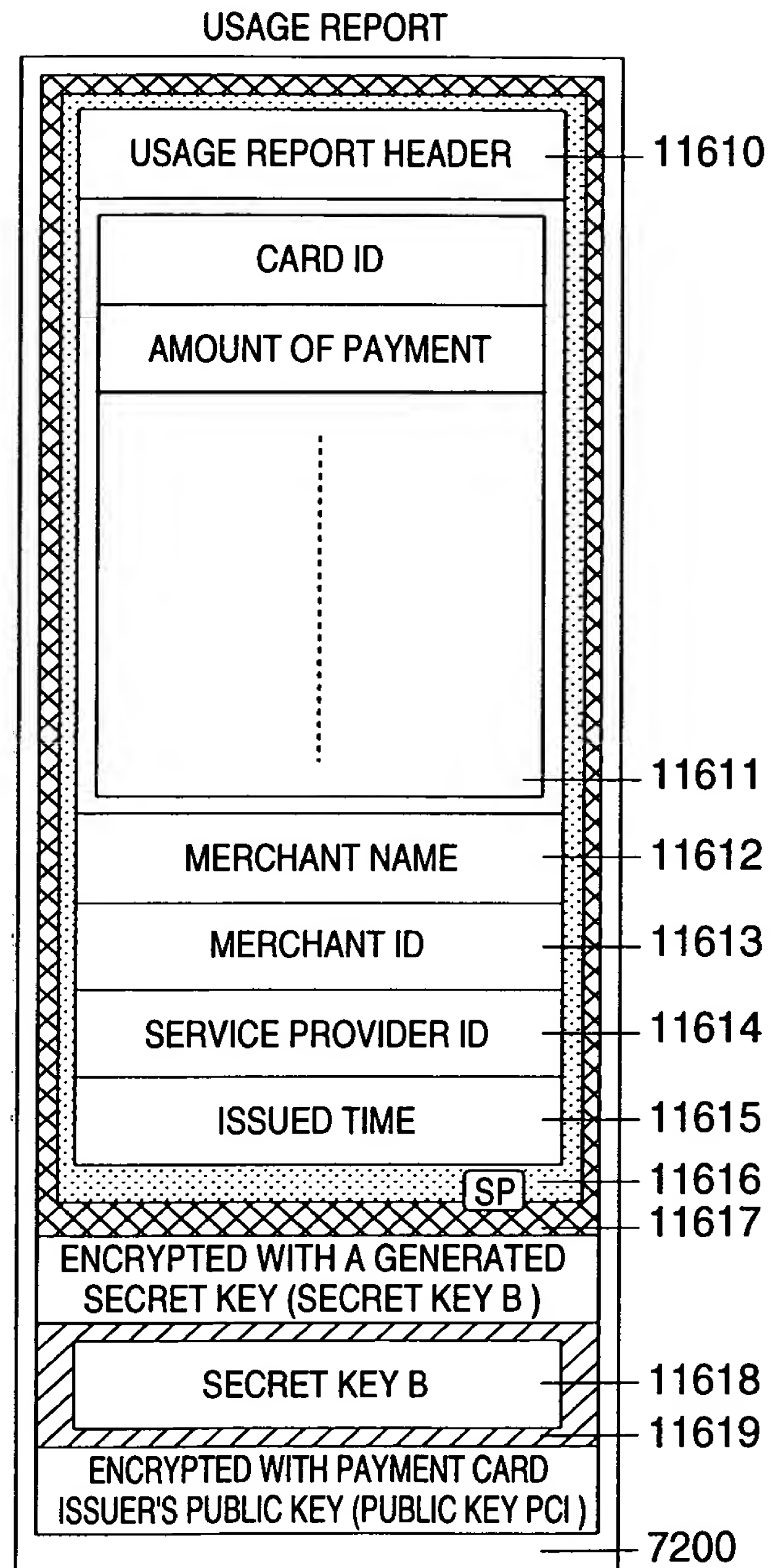


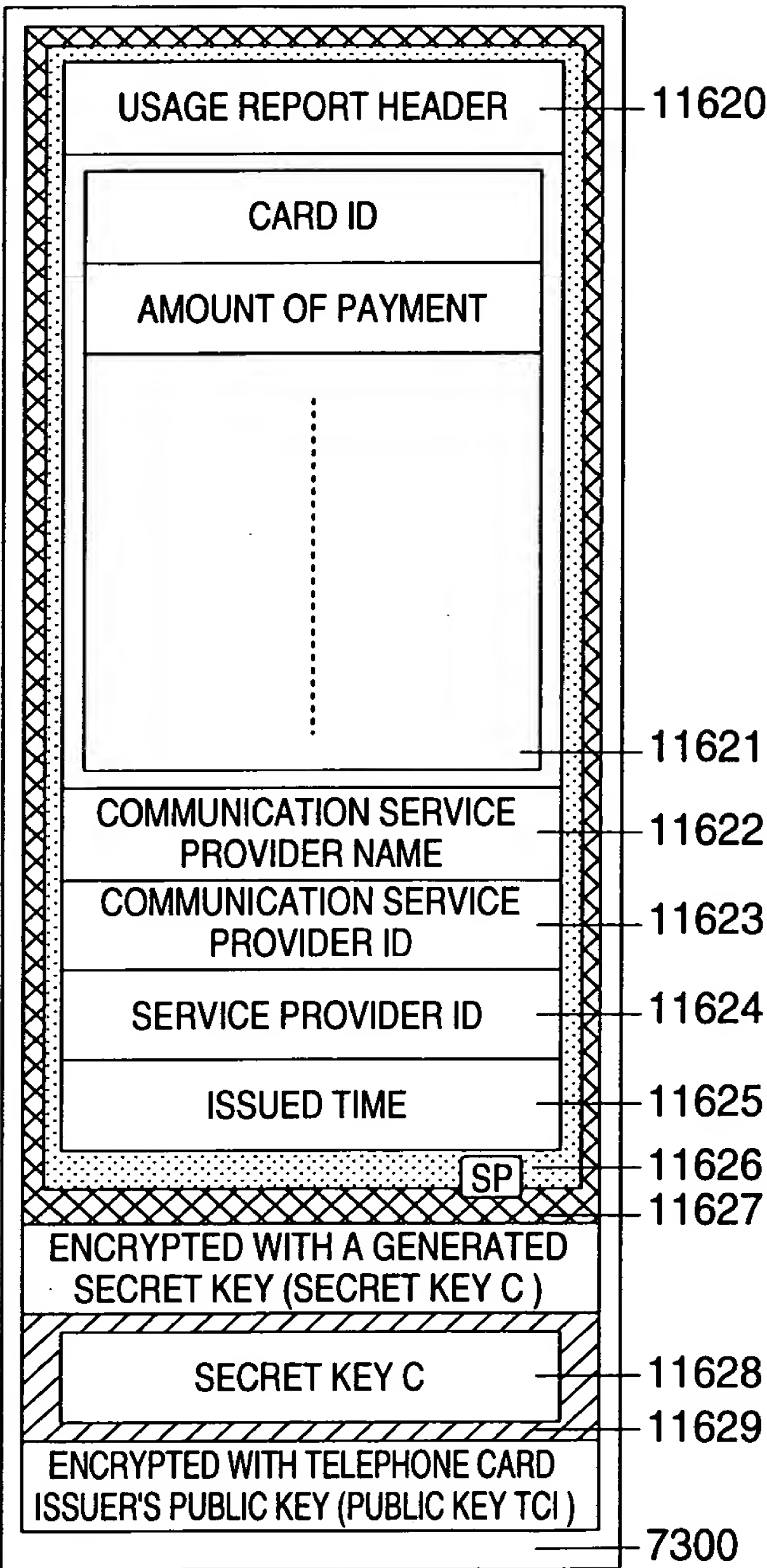
FIG.116B



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FIG.116C

USAGE REPORT



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FIG.117A

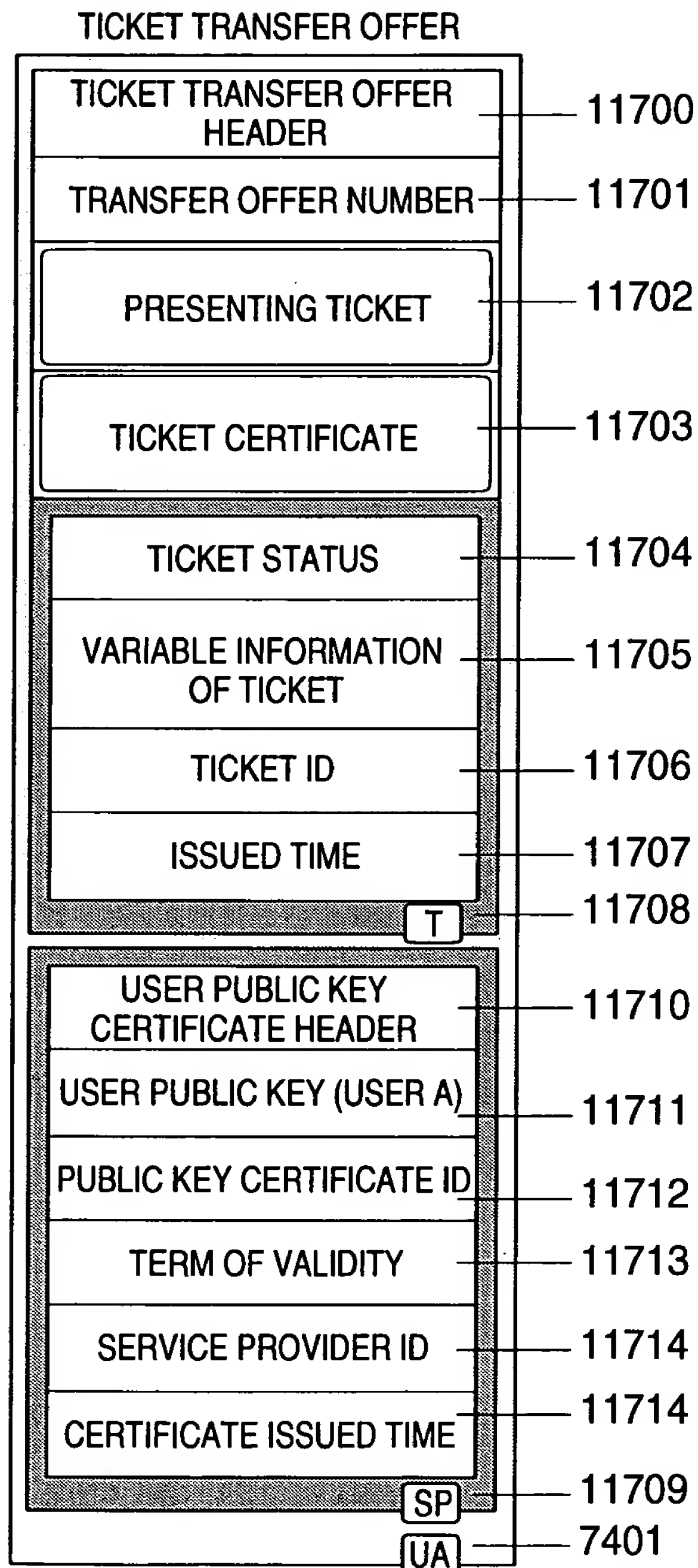


FIG.117B

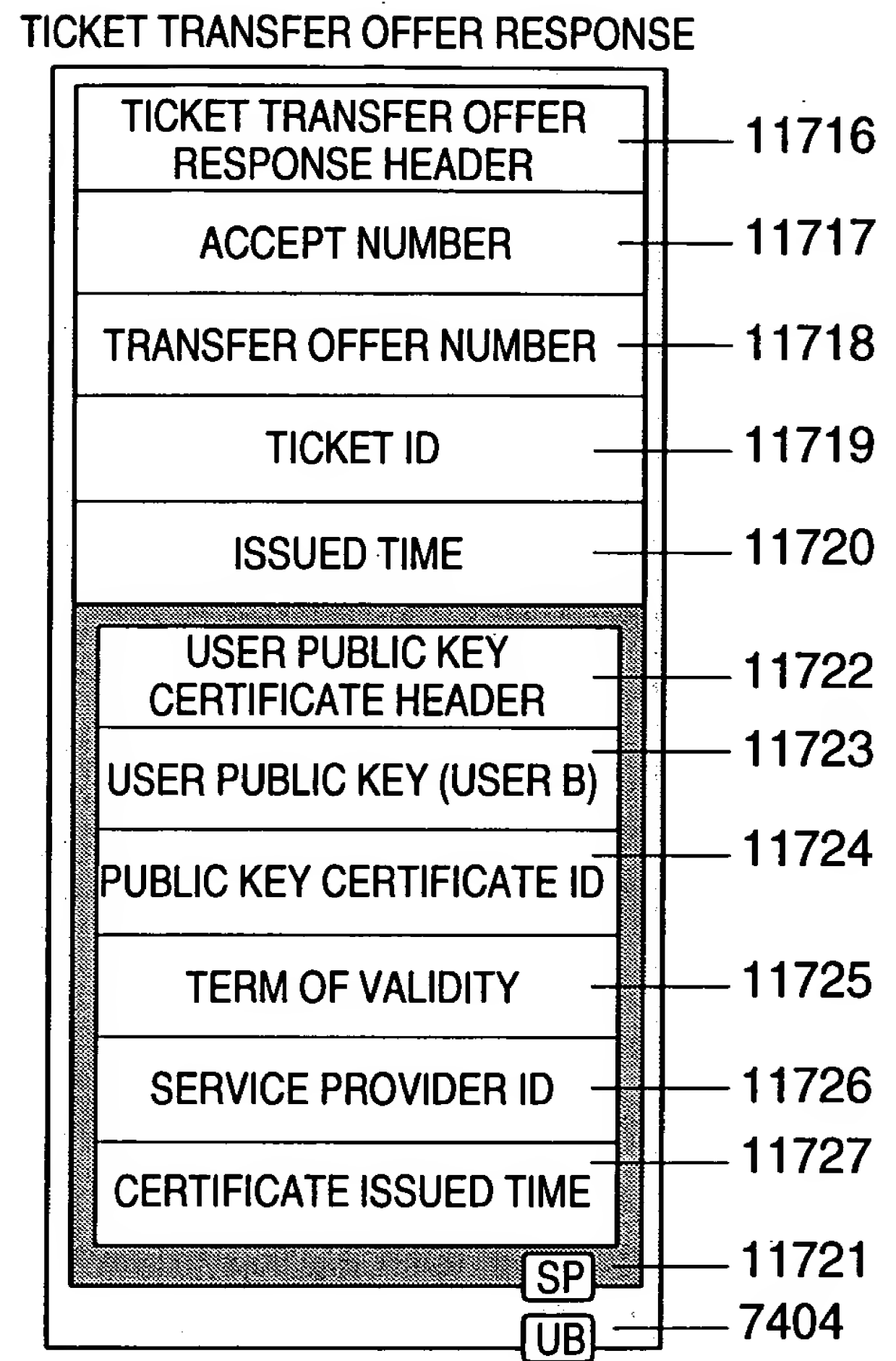




FIG.118A

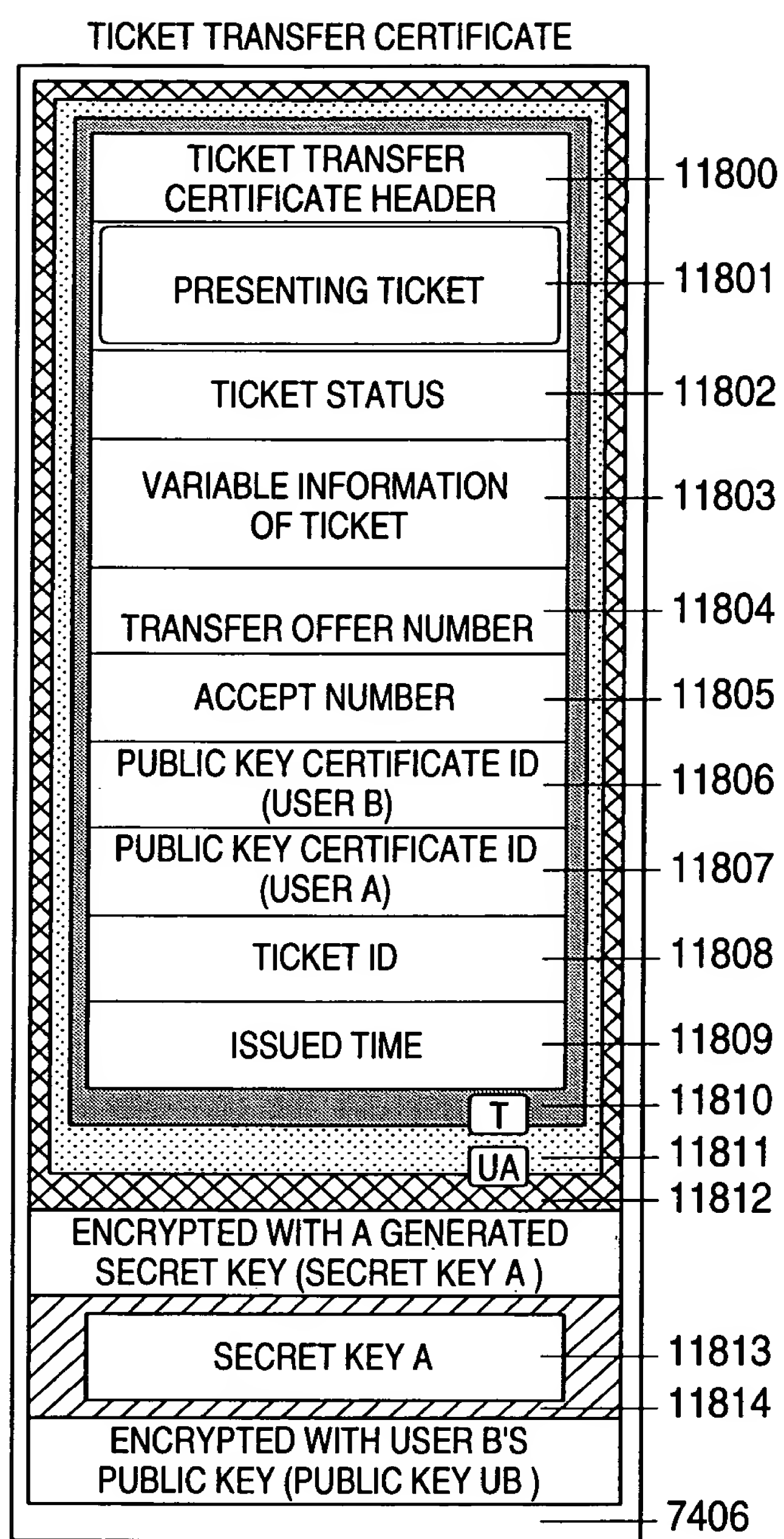
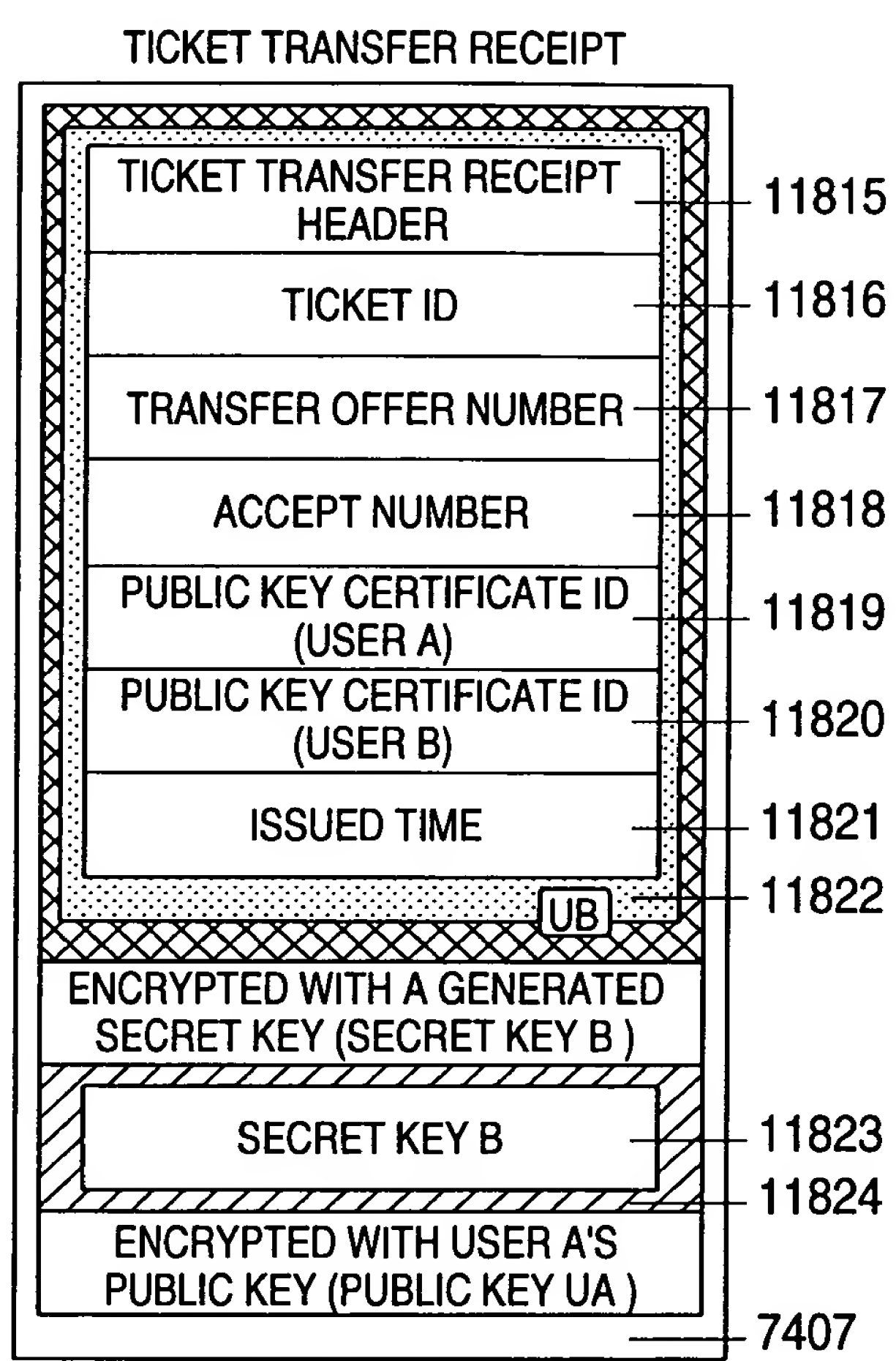


FIG.118B





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FIG.119A

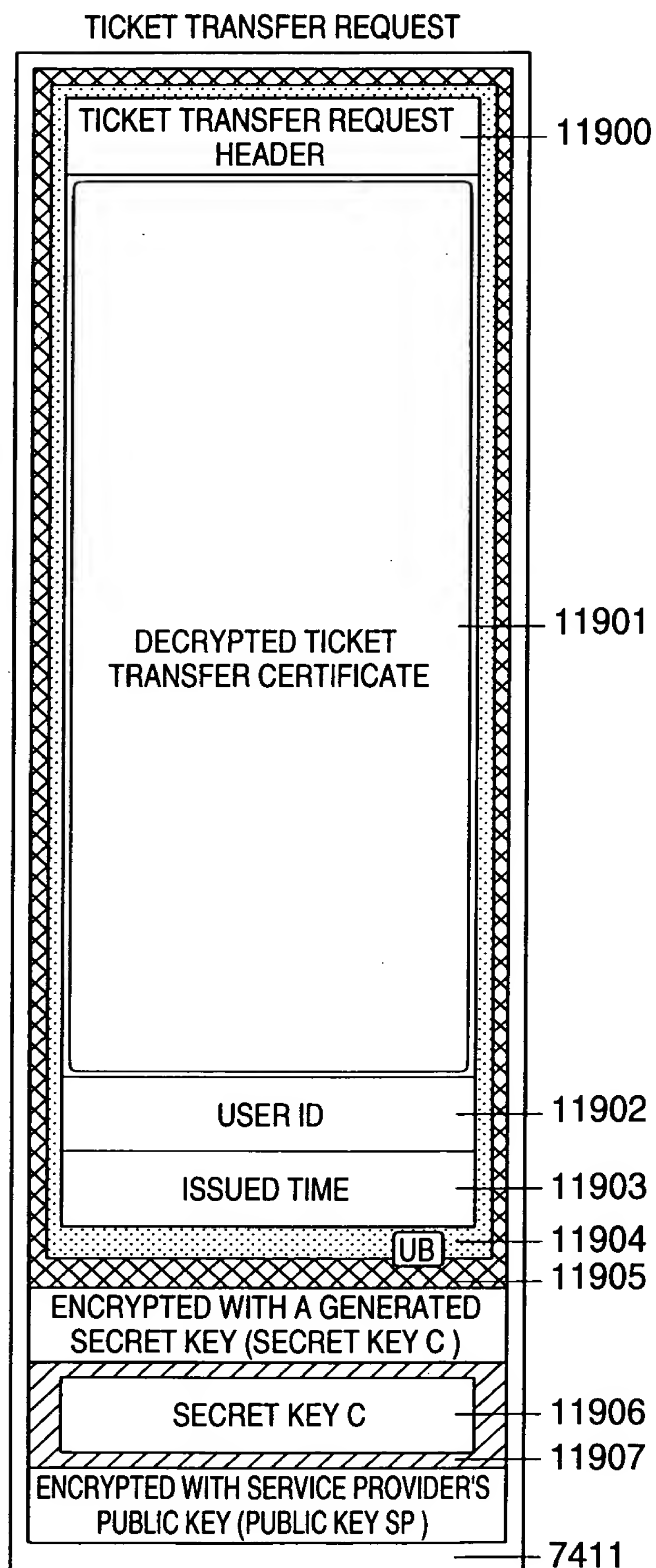
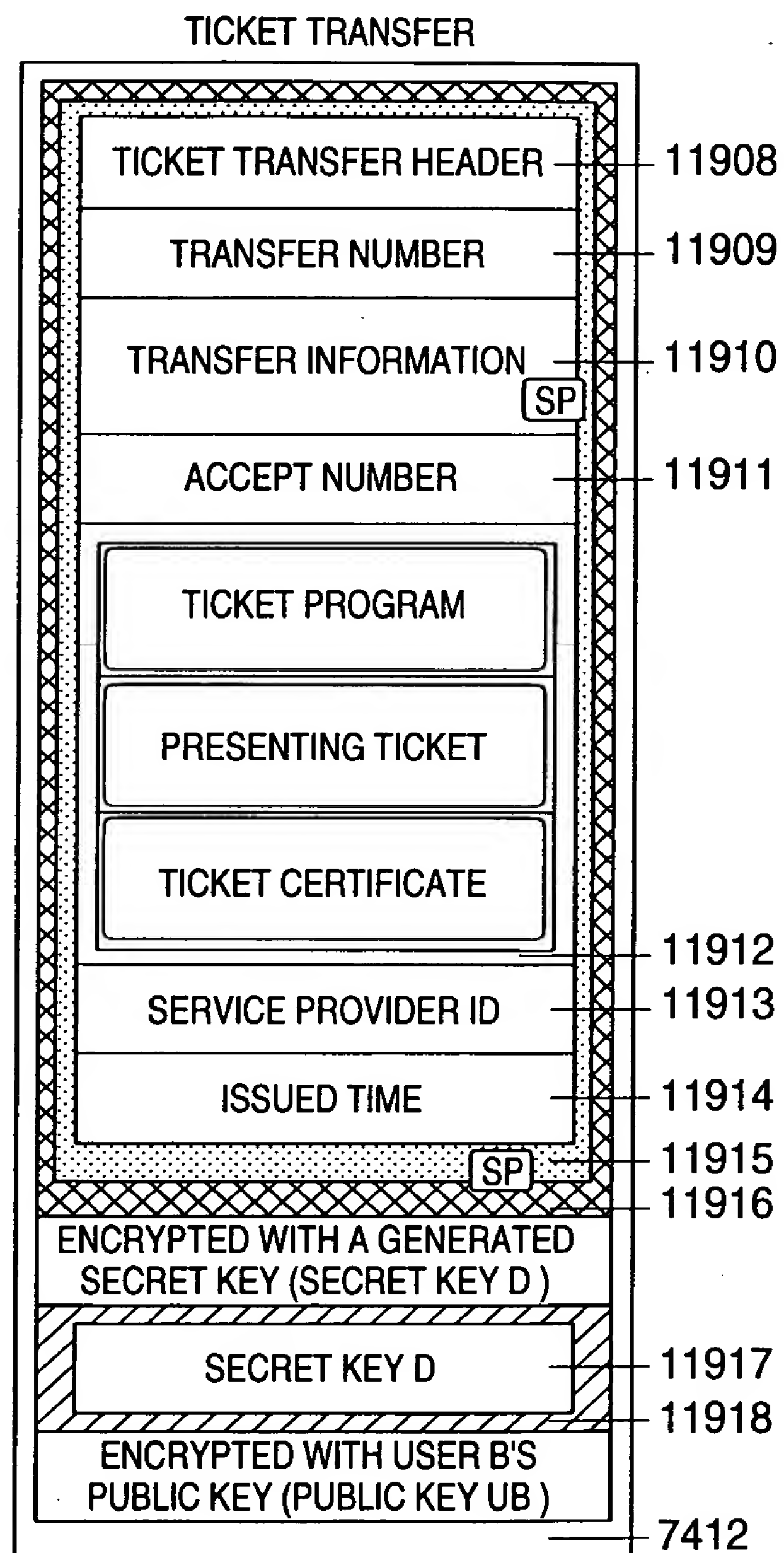


FIG.119B



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FIG.120A

## CARD TRANSFER OFFER

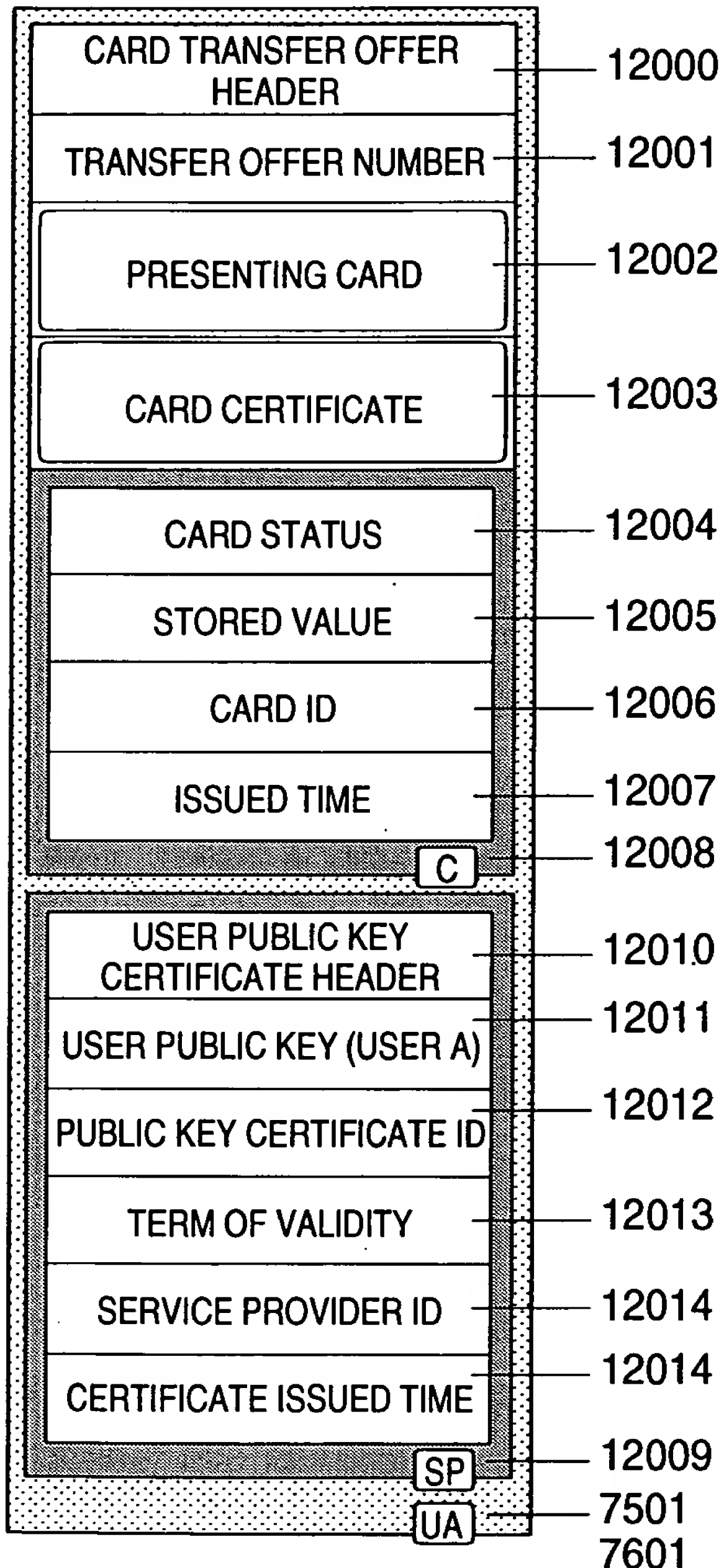
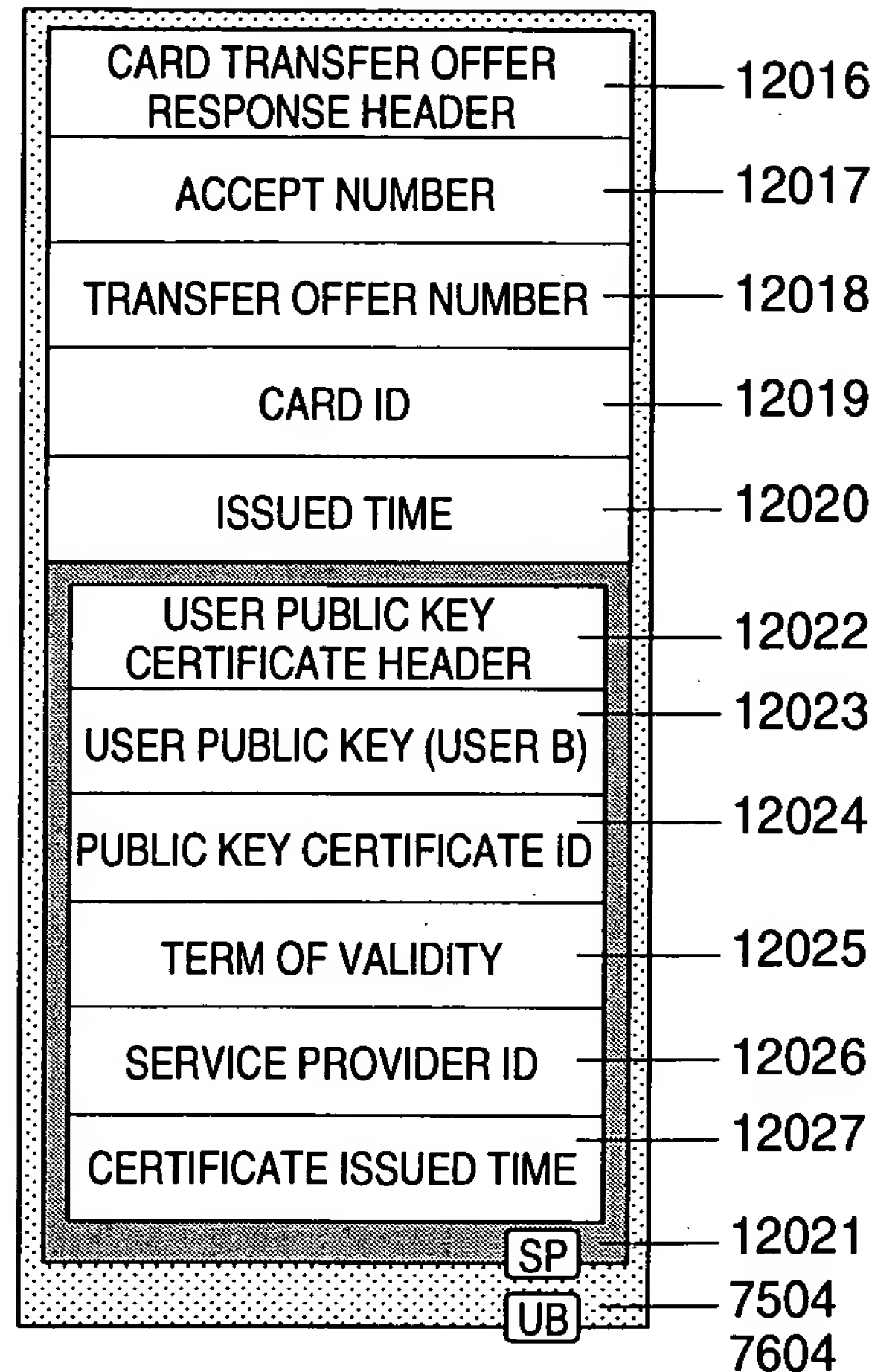
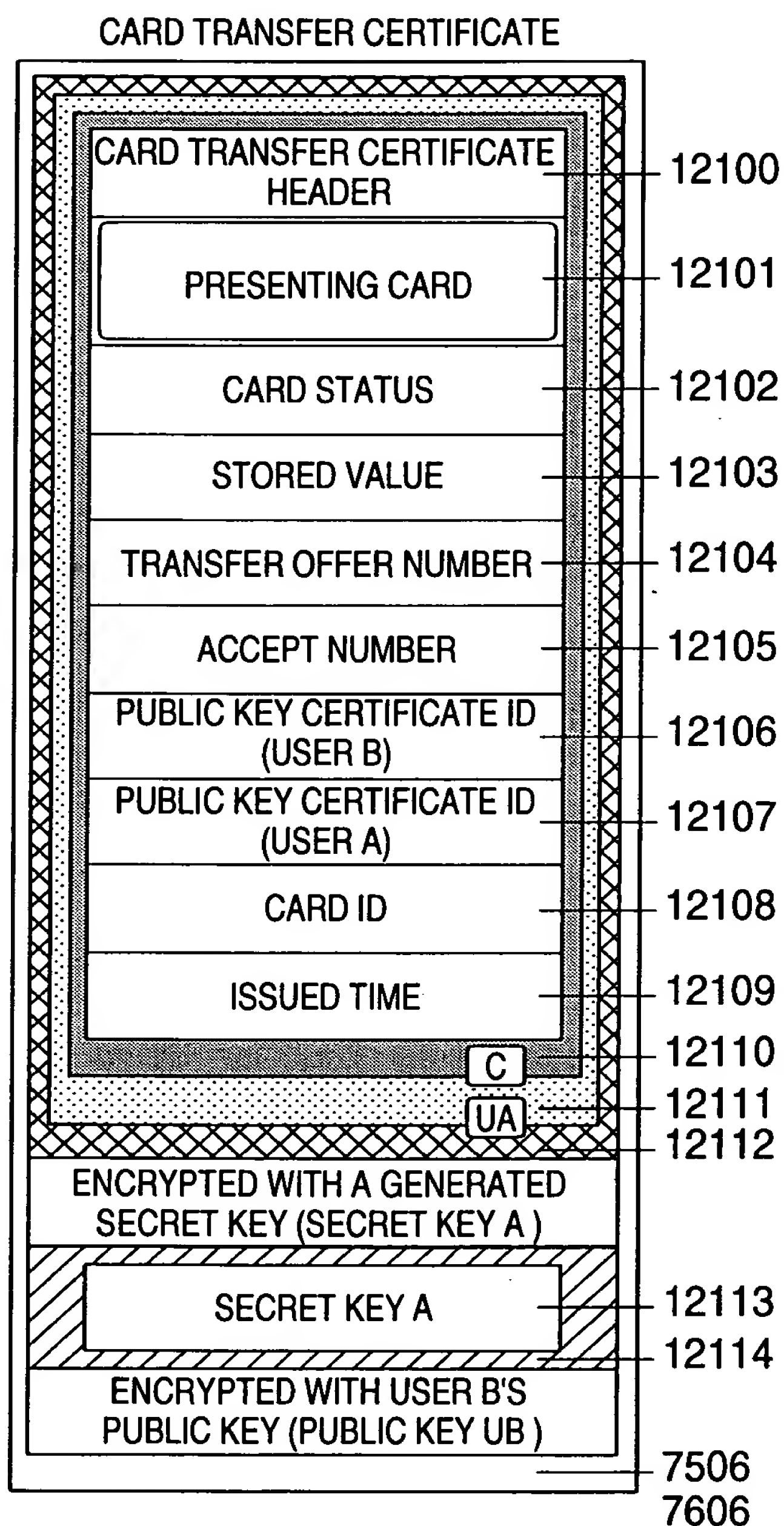


FIG.120B

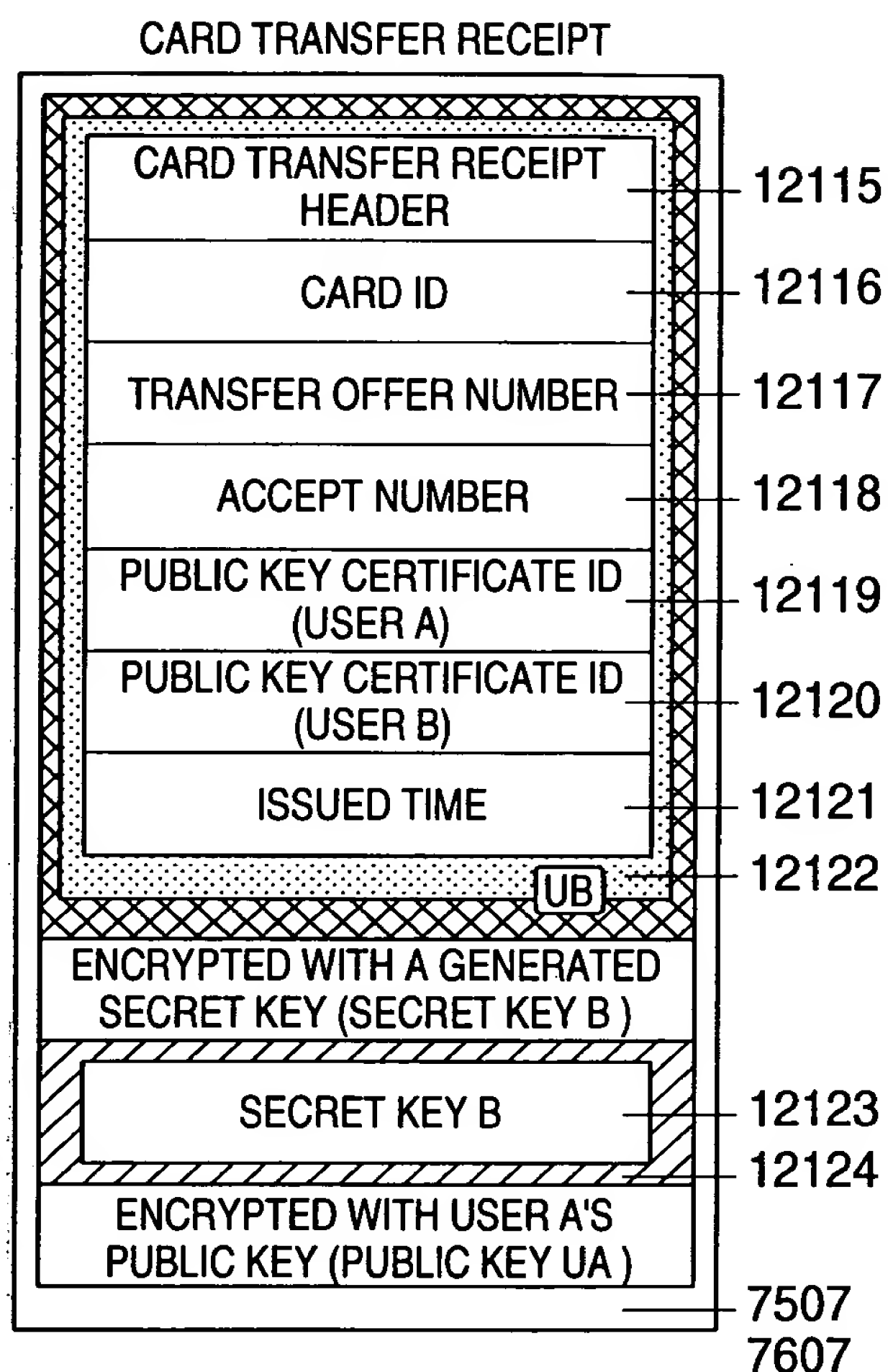
## CARD TRANSFER OFFER RESPONSE



**FIG.121A**



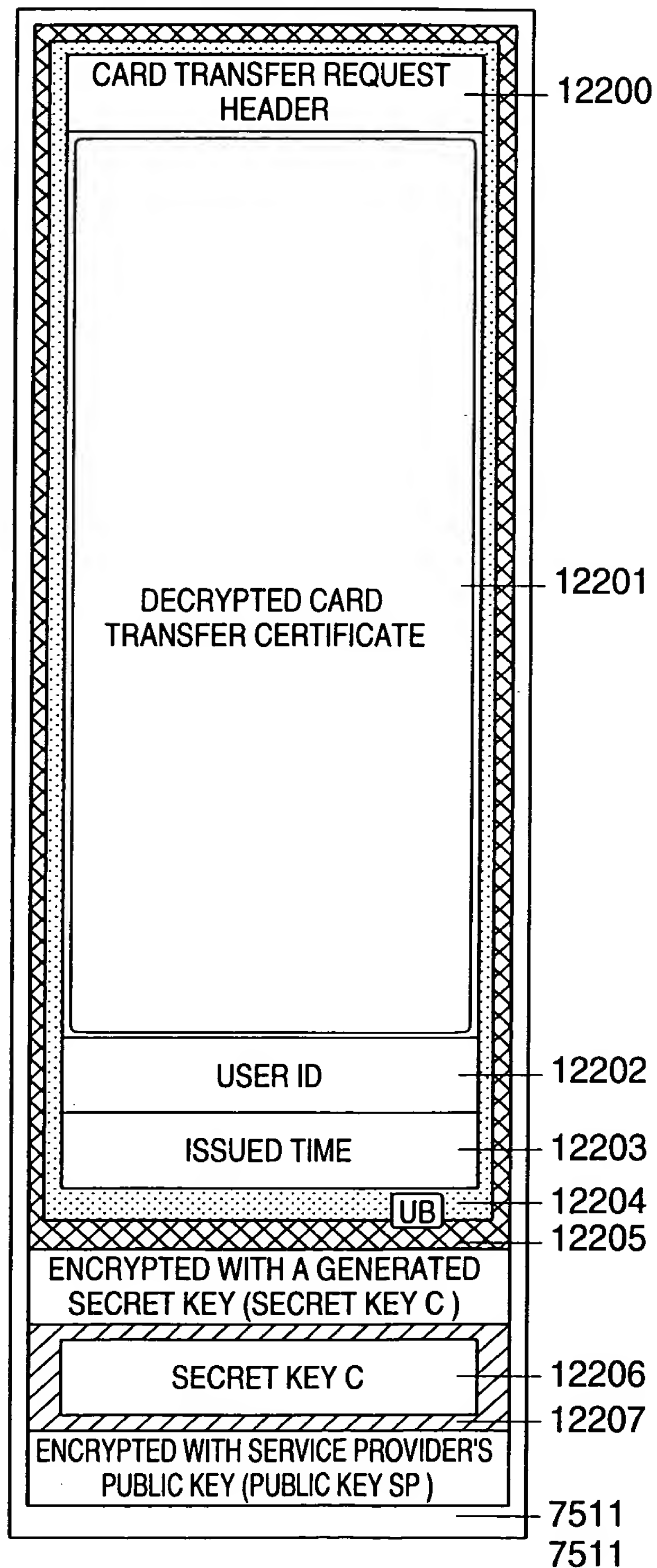
**FIG. 121B**



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## FIG.122A

## CARD TRANSFER REQUEST



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FIG.122B

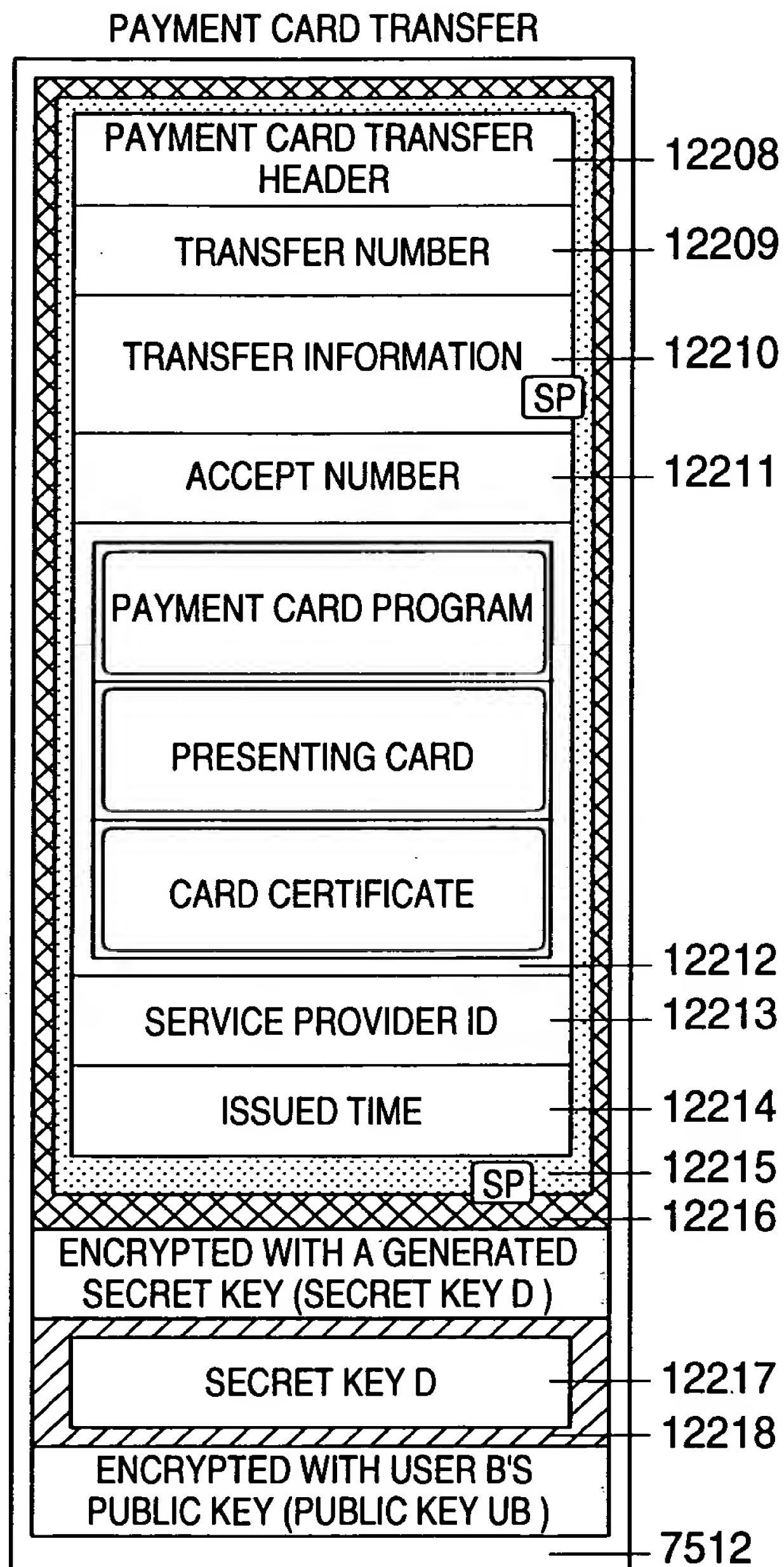


FIG.122C

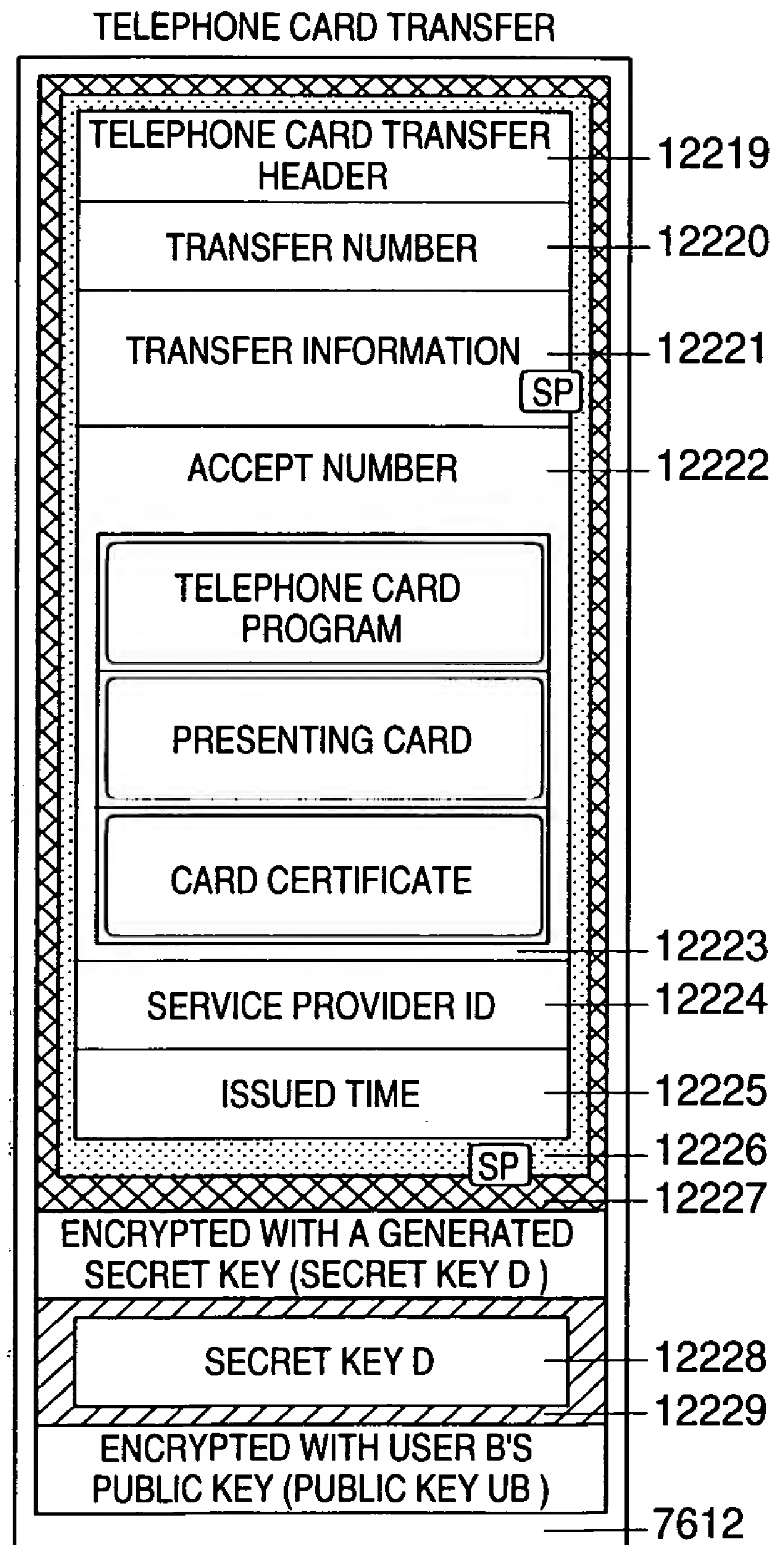


FIG.123A

ELECTRONIC TICKET INSTALLATION REQUEST

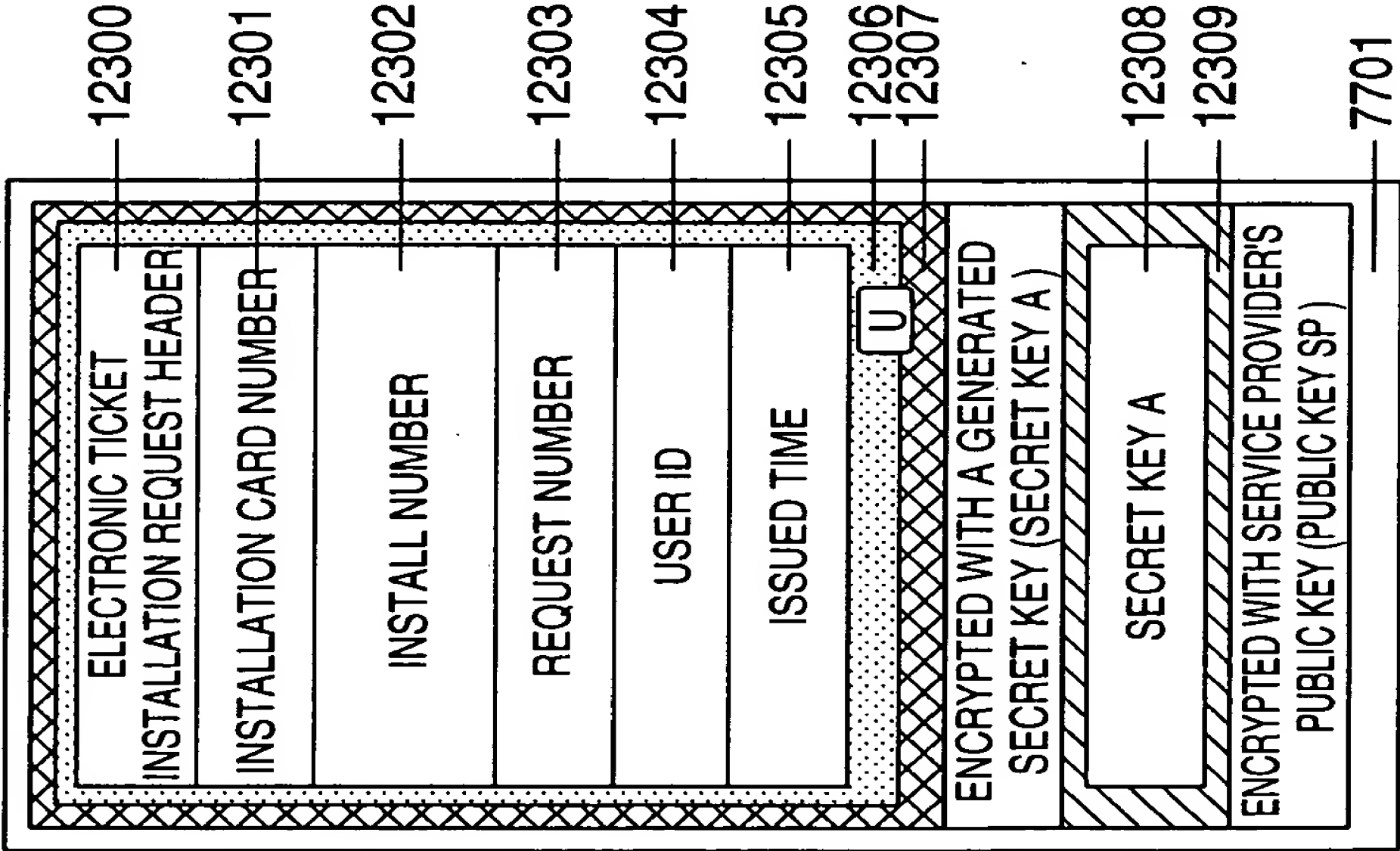
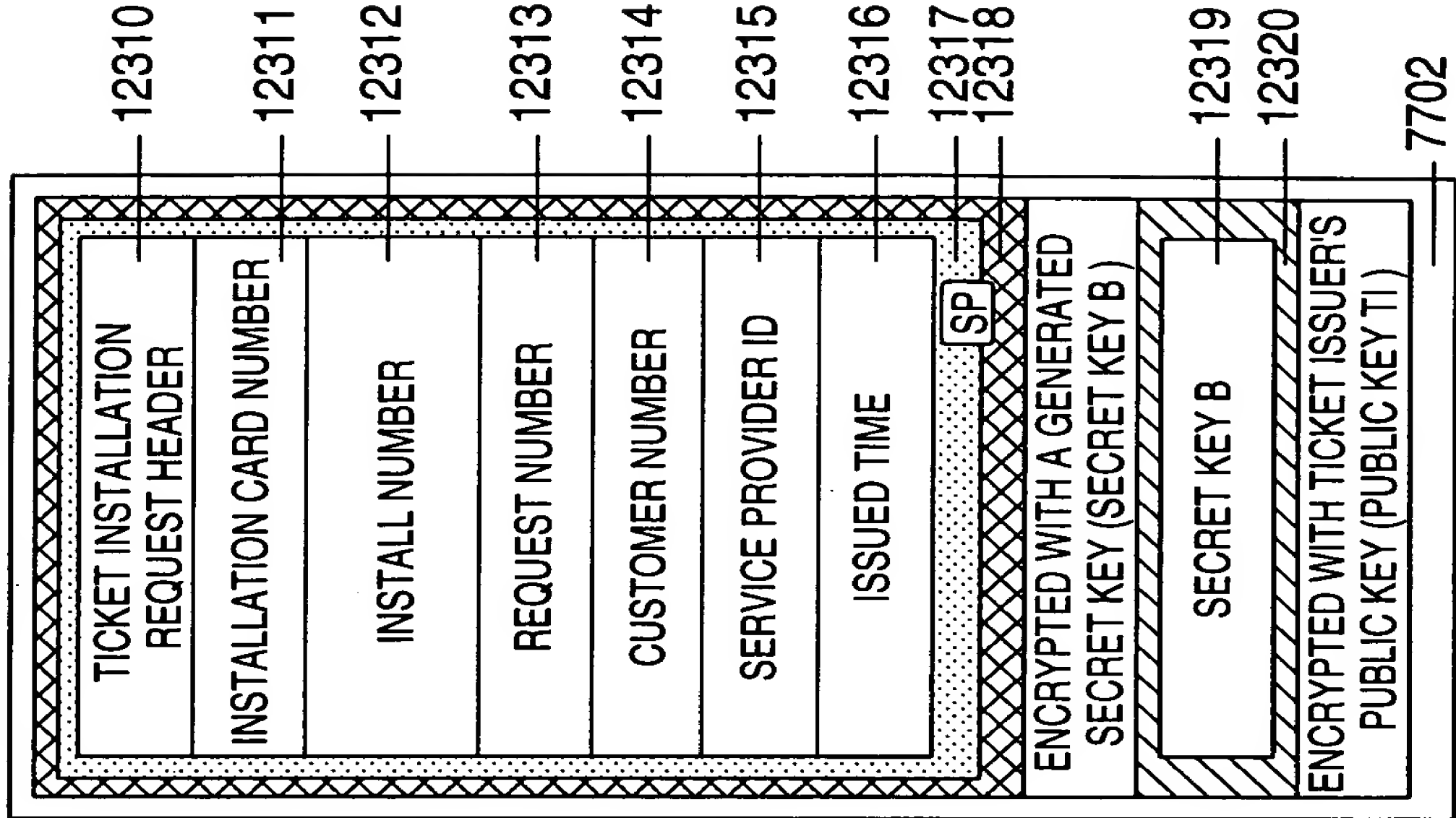


FIG.123B

TICKET INSTALLATION REQUEST





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FIG.124A

## ELECTRONIC TICKET INSTALL COMMISSION

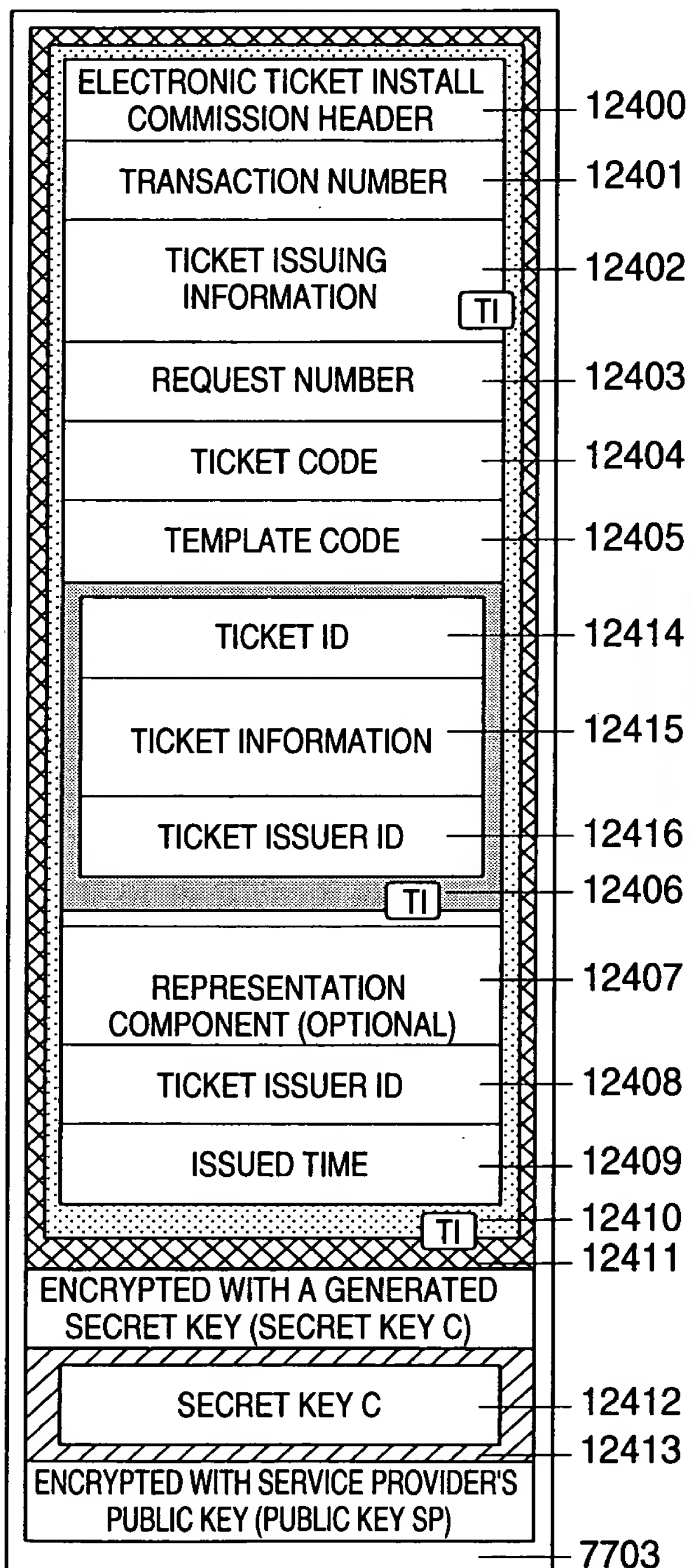


FIG.124B

## ELECTRONIC TICKET INSTALL

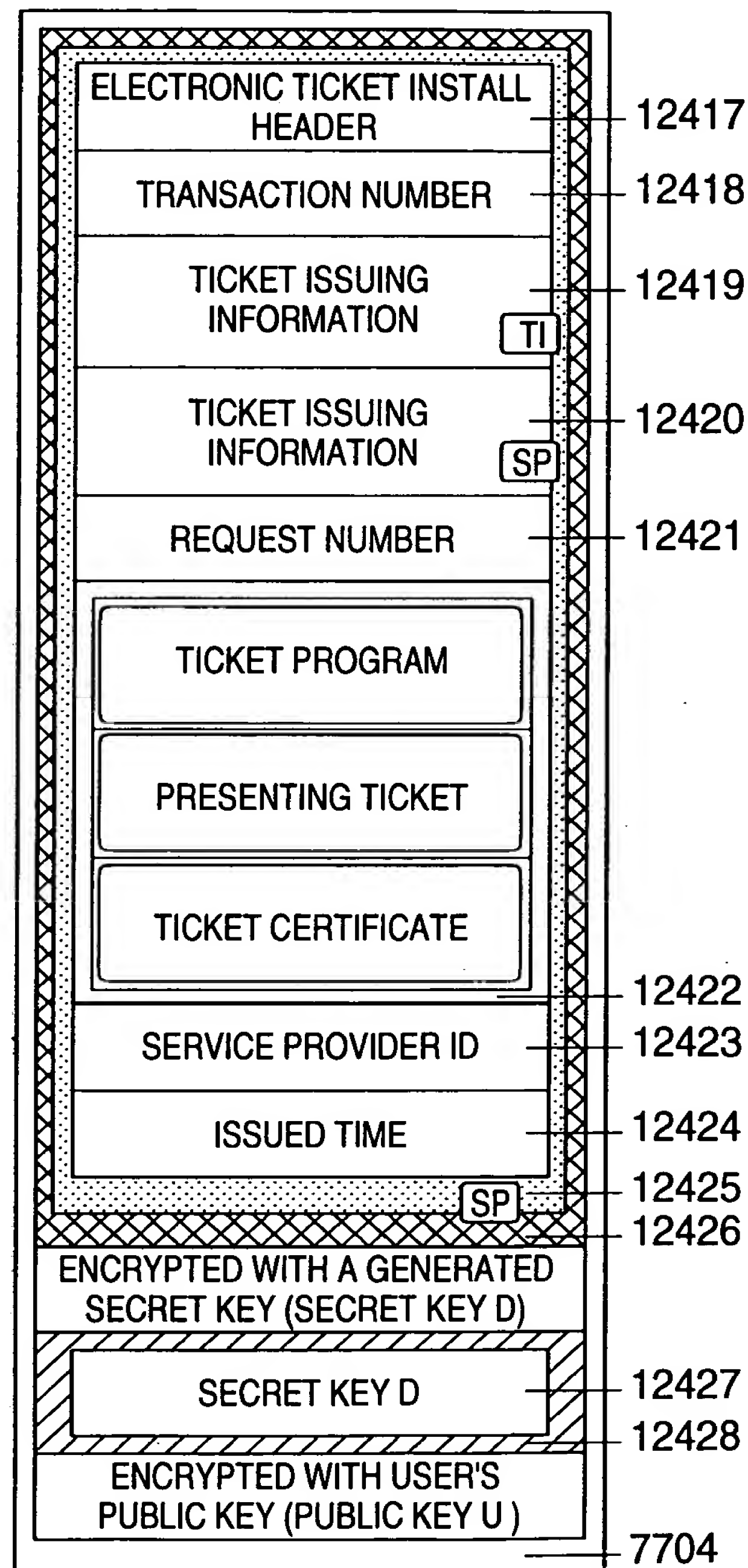


FIG.125A

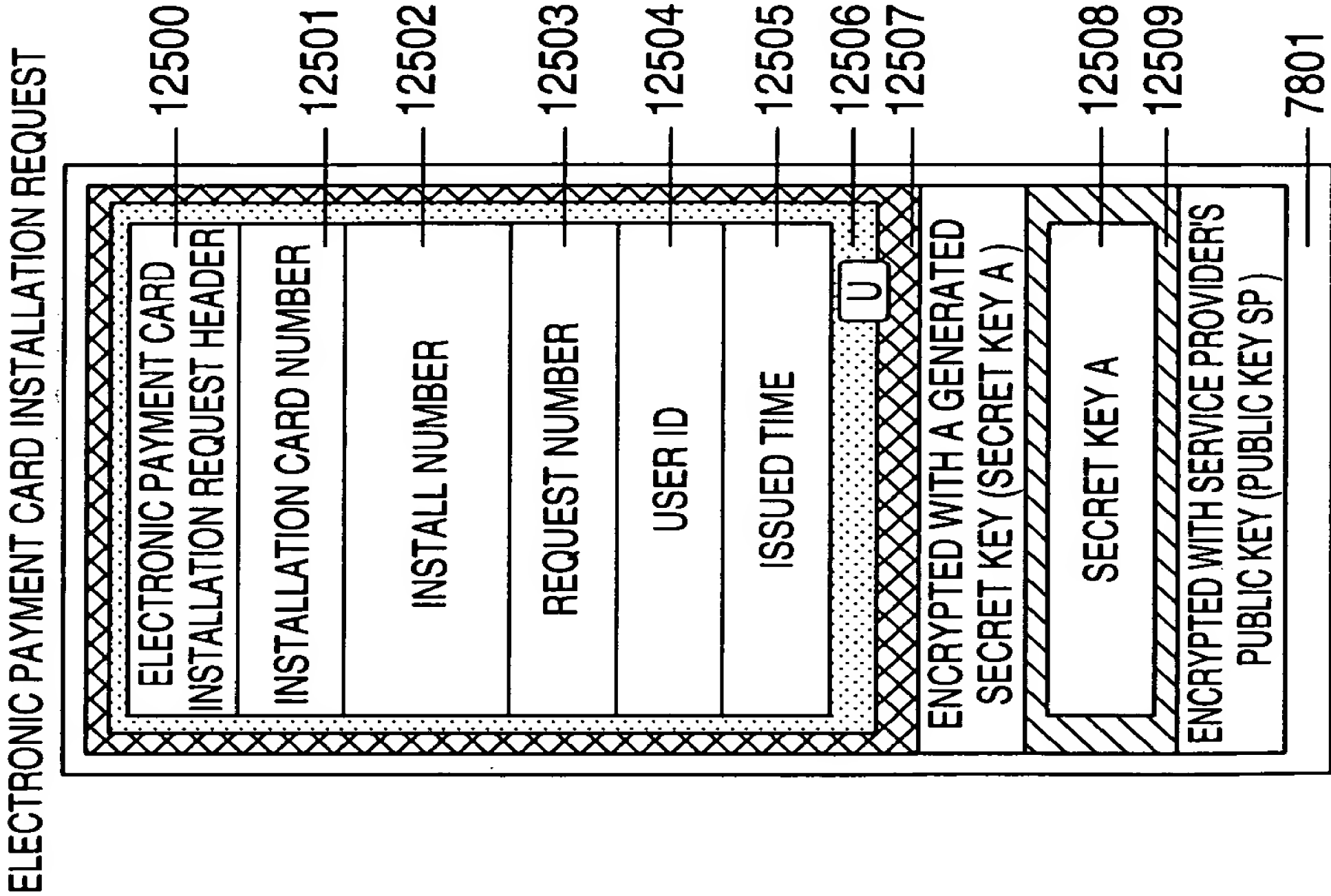
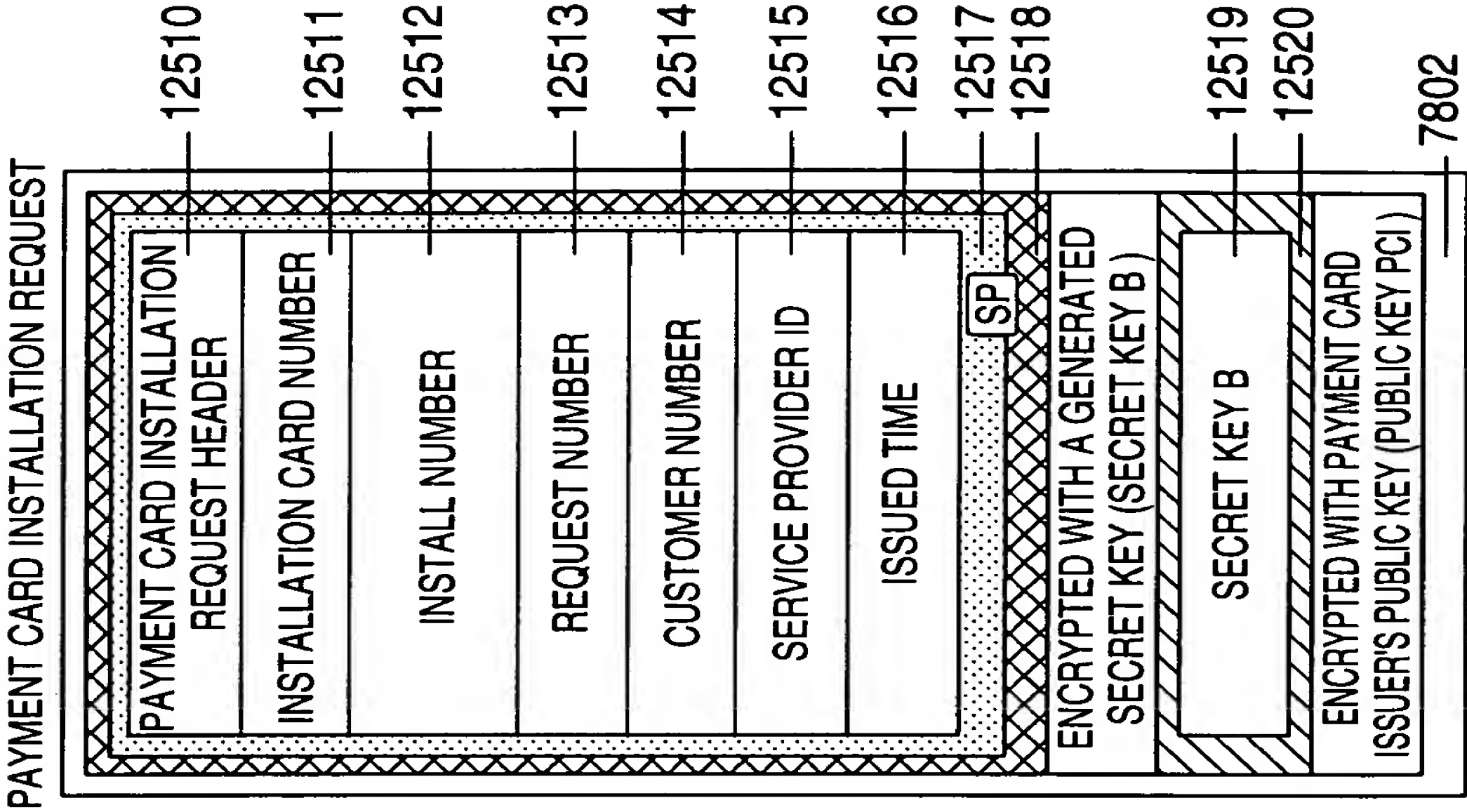


FIG.125B





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FIG.126A

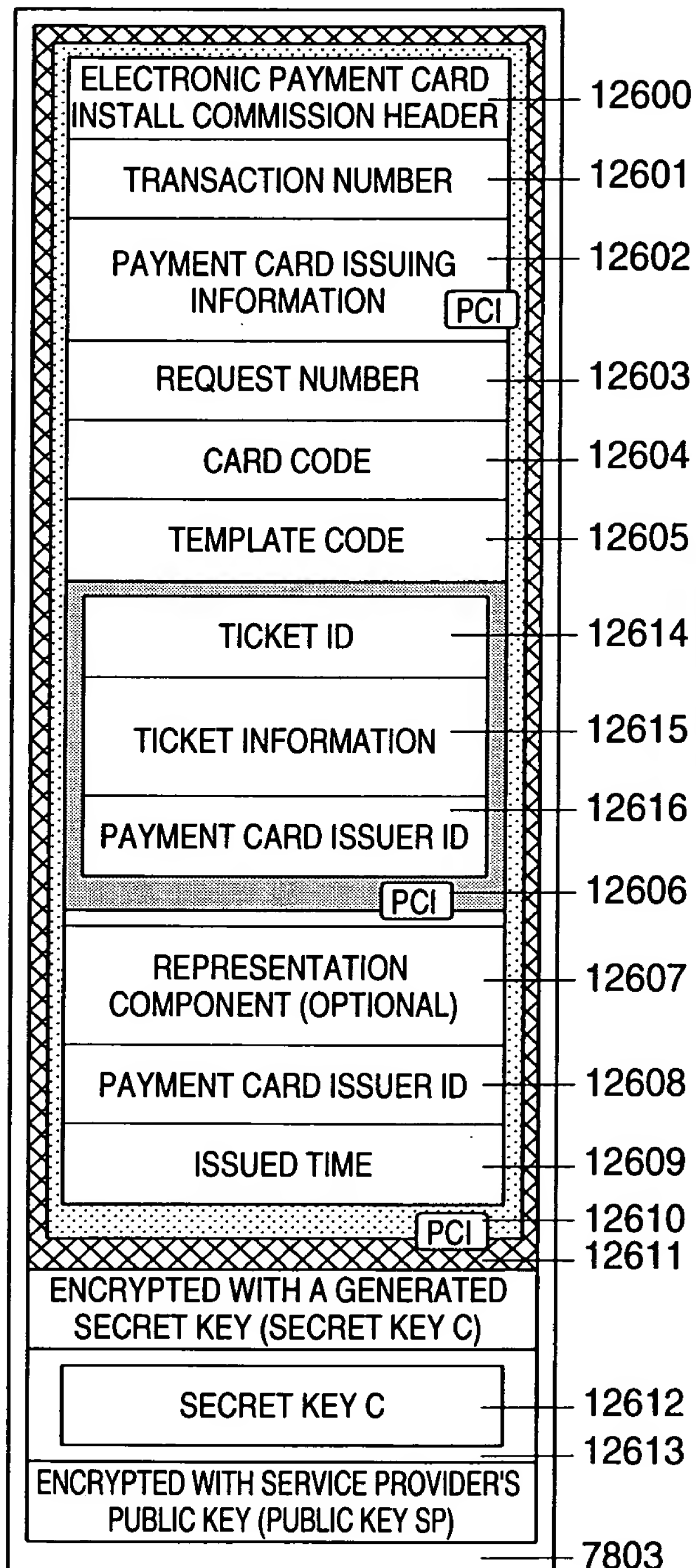
ELECTRONIC PAYMENT CARD  
INSTALL COMMISSION

FIG.126B

## ELECTRONIC PAYMENT CARD INSTALL

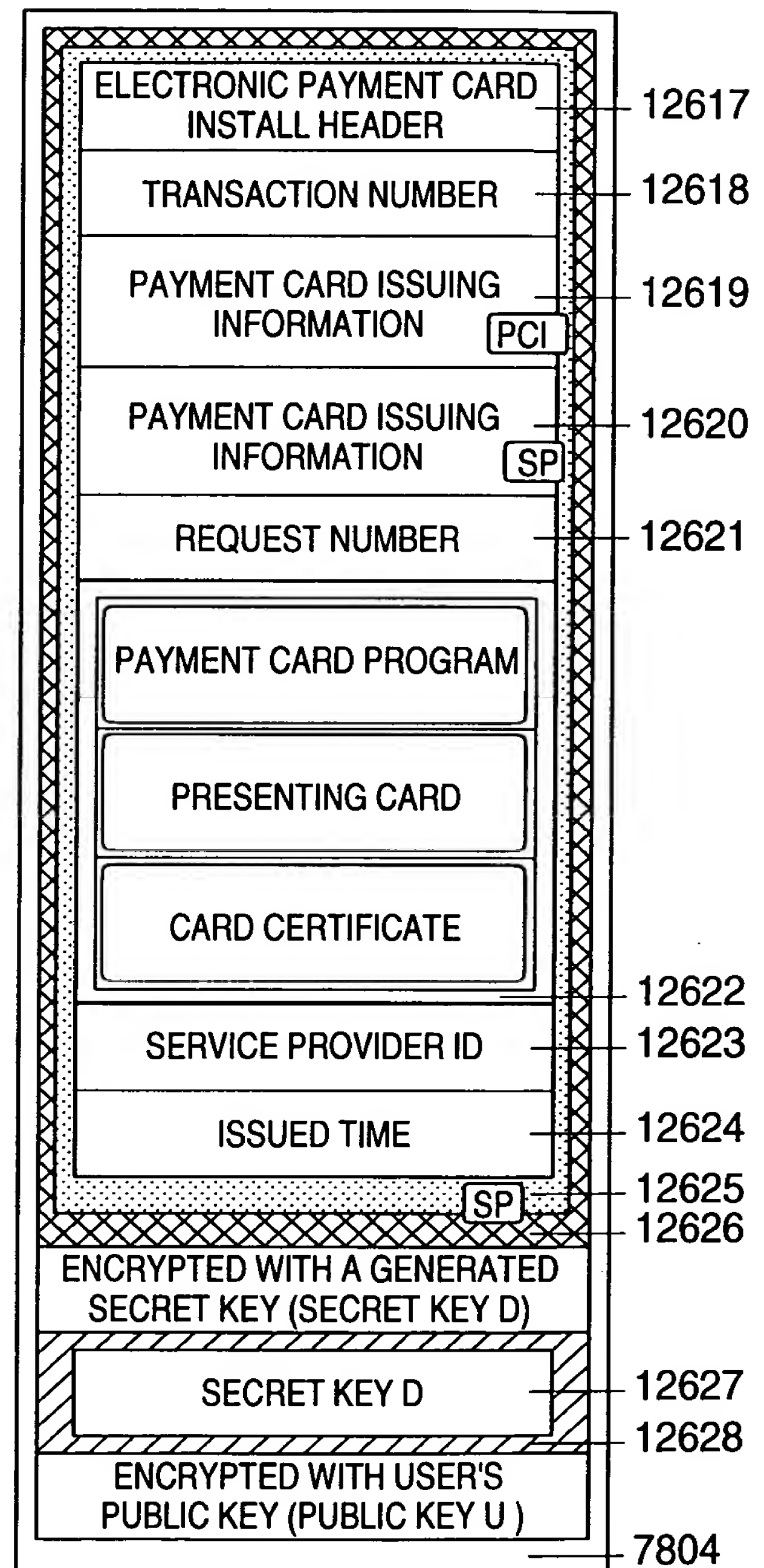


FIG.127A

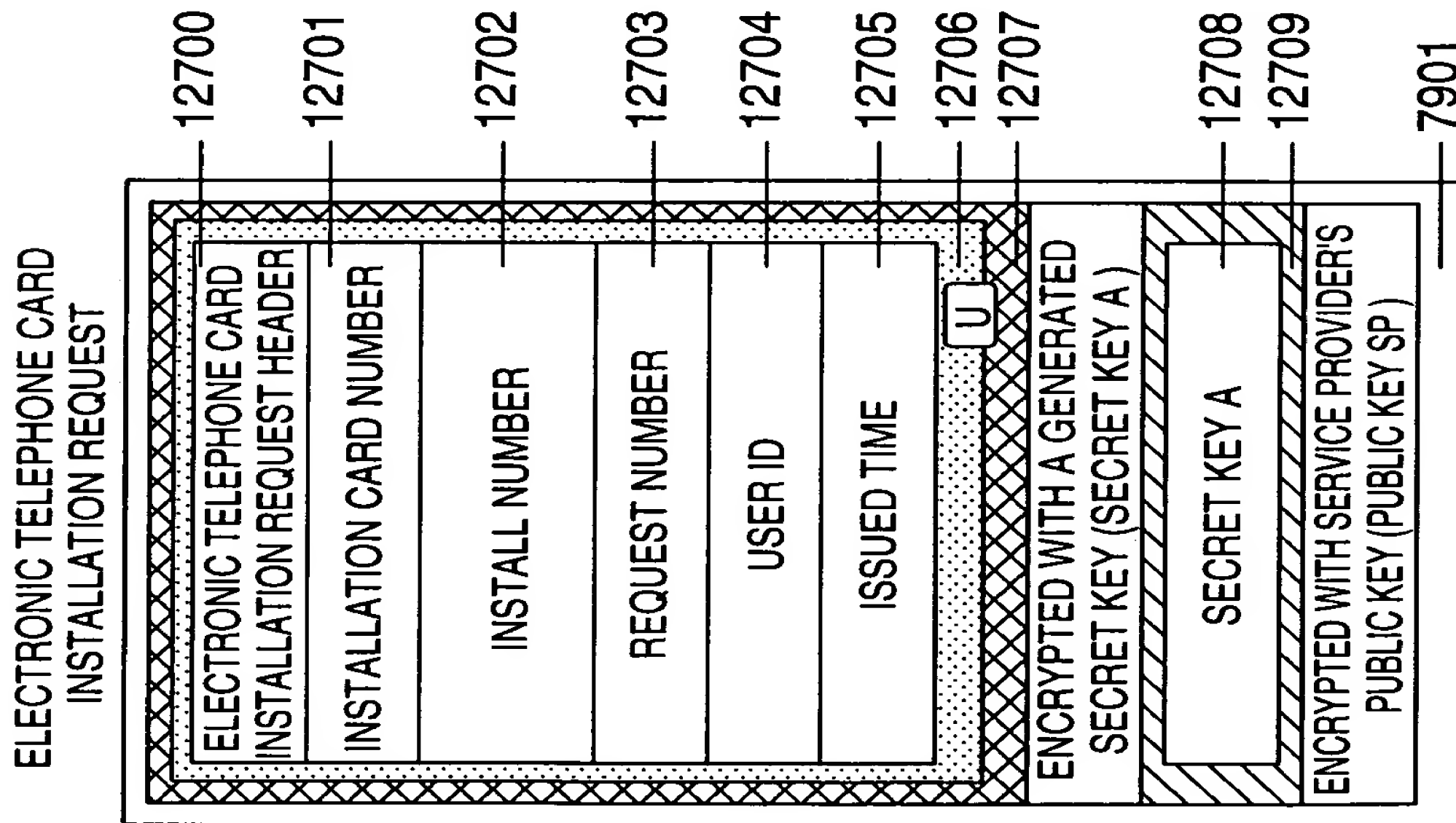
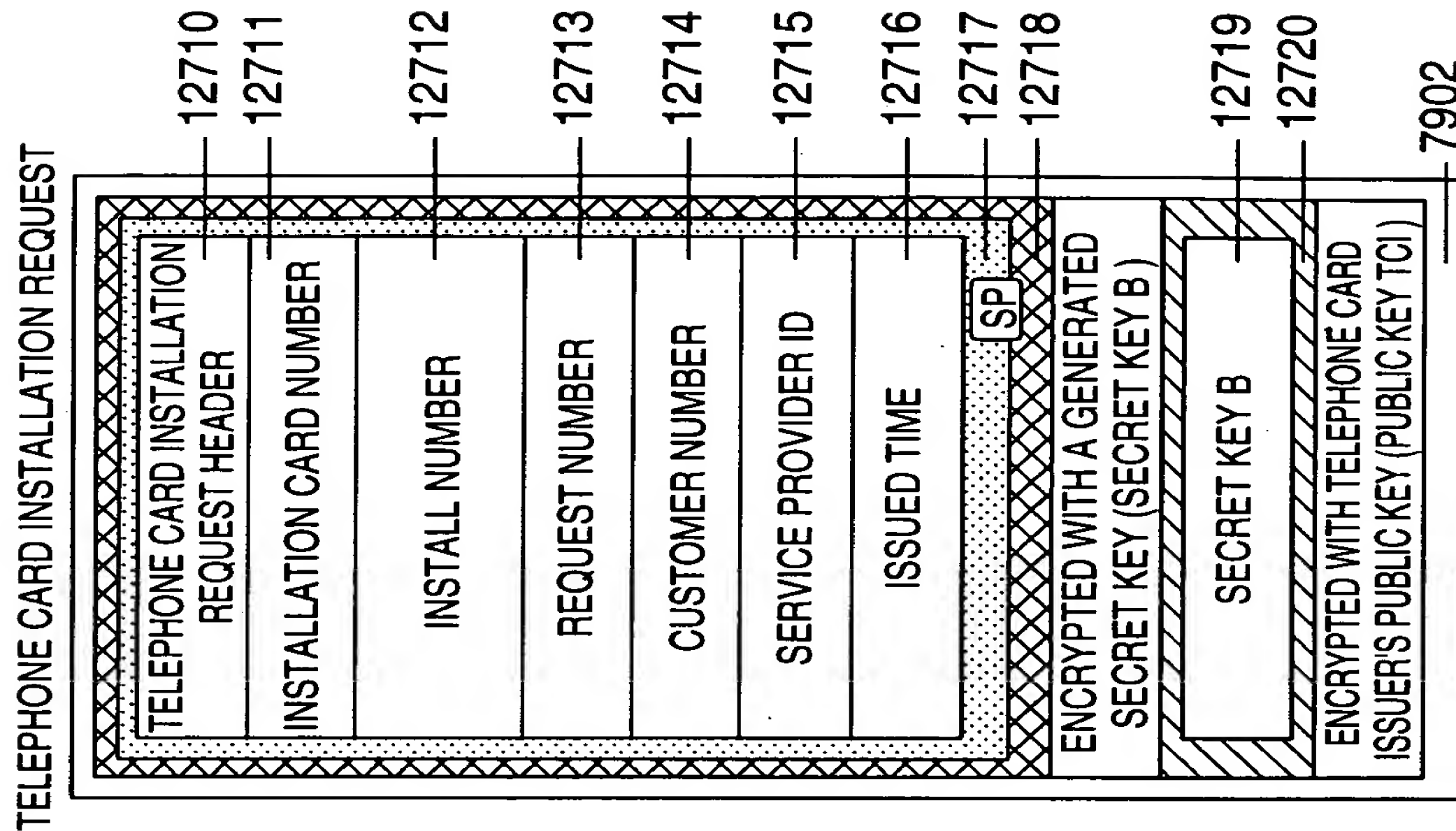


FIG.127B



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FIG.128A

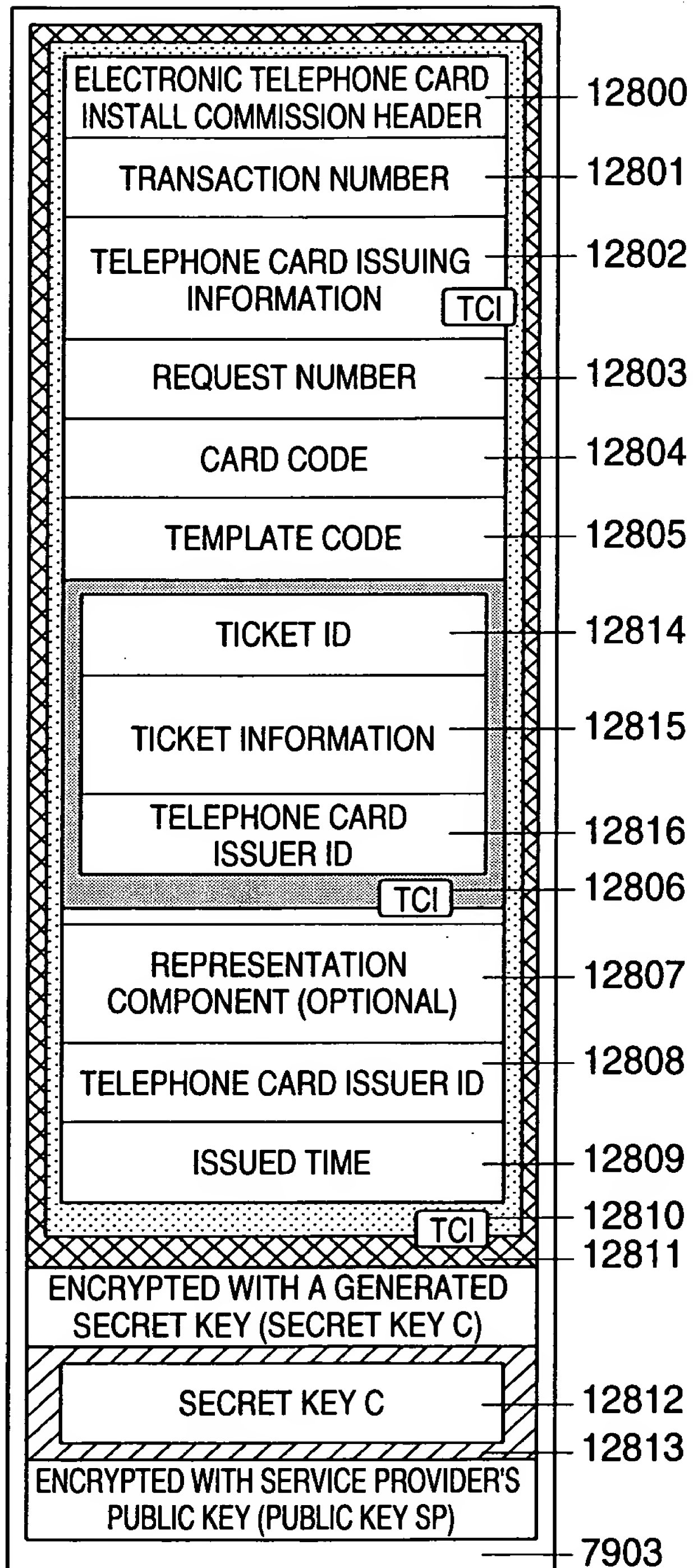
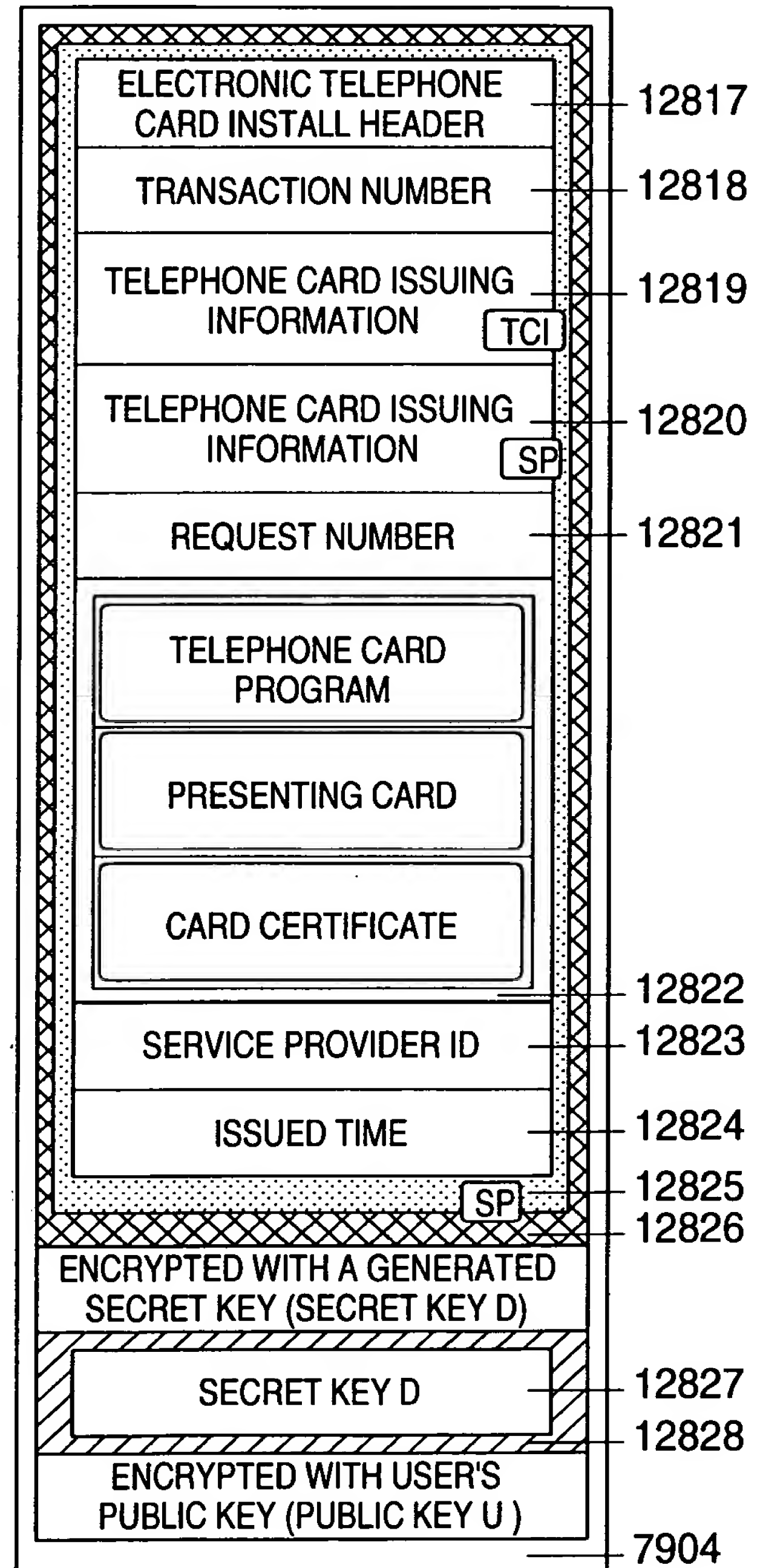
ELECTRONIC TELEPHONE CARD  
INSTALL COMMISSION

FIG.128B

## ELECTRONIC TELEPHONE CARD INSTALL



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FIG.129A

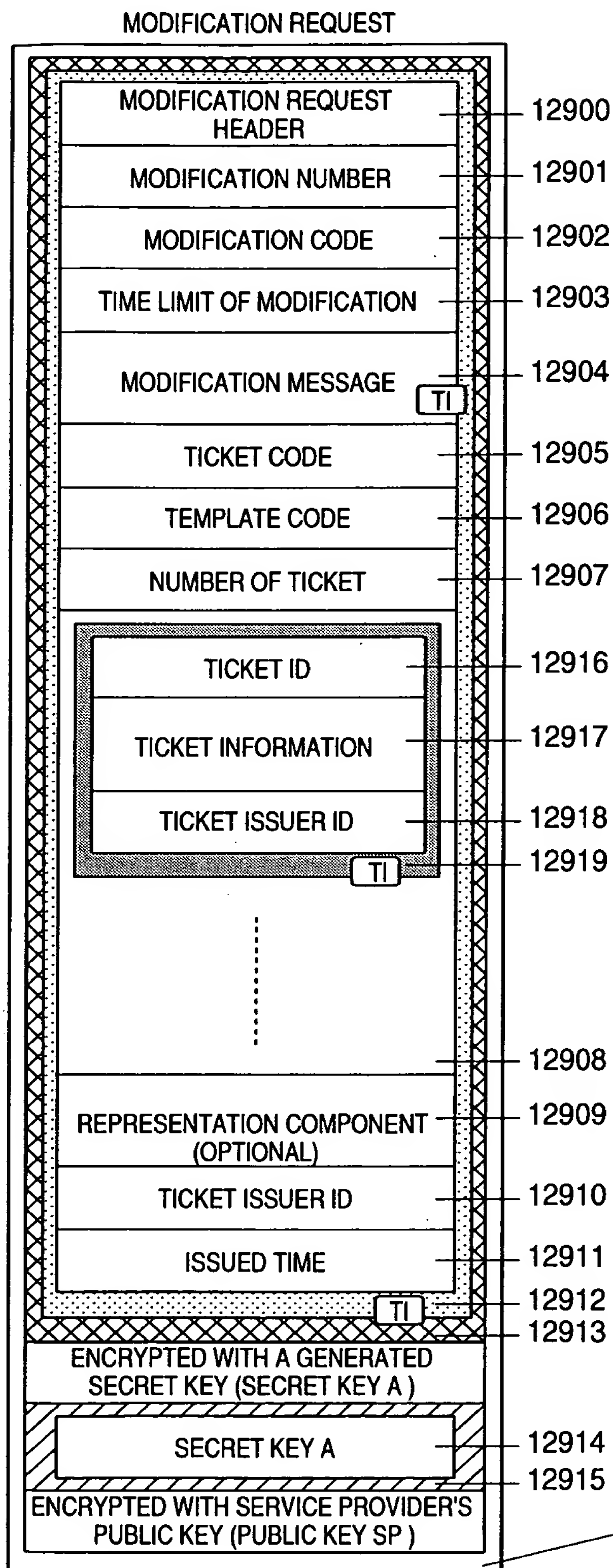


FIG.129B

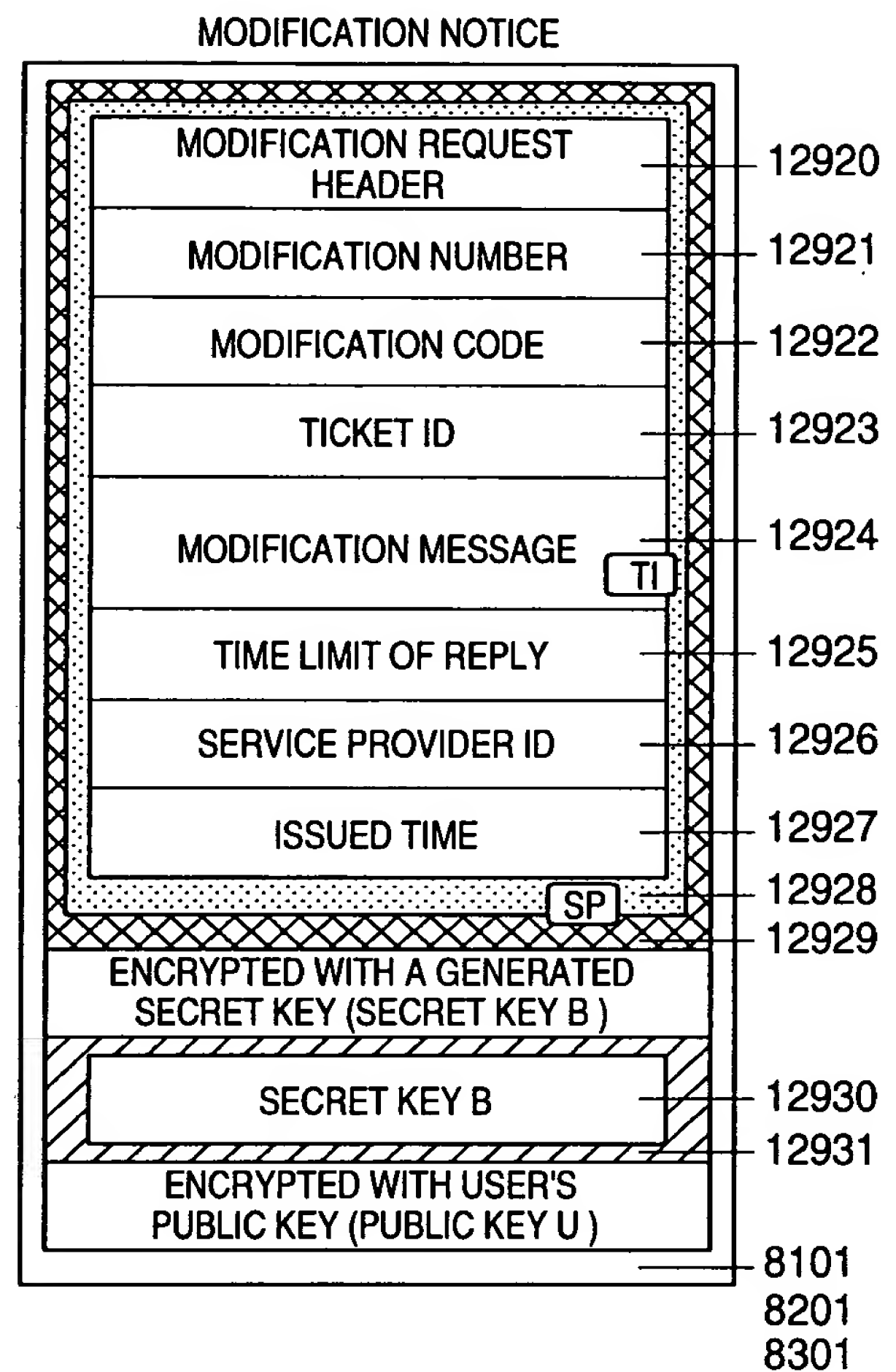


FIG.130A

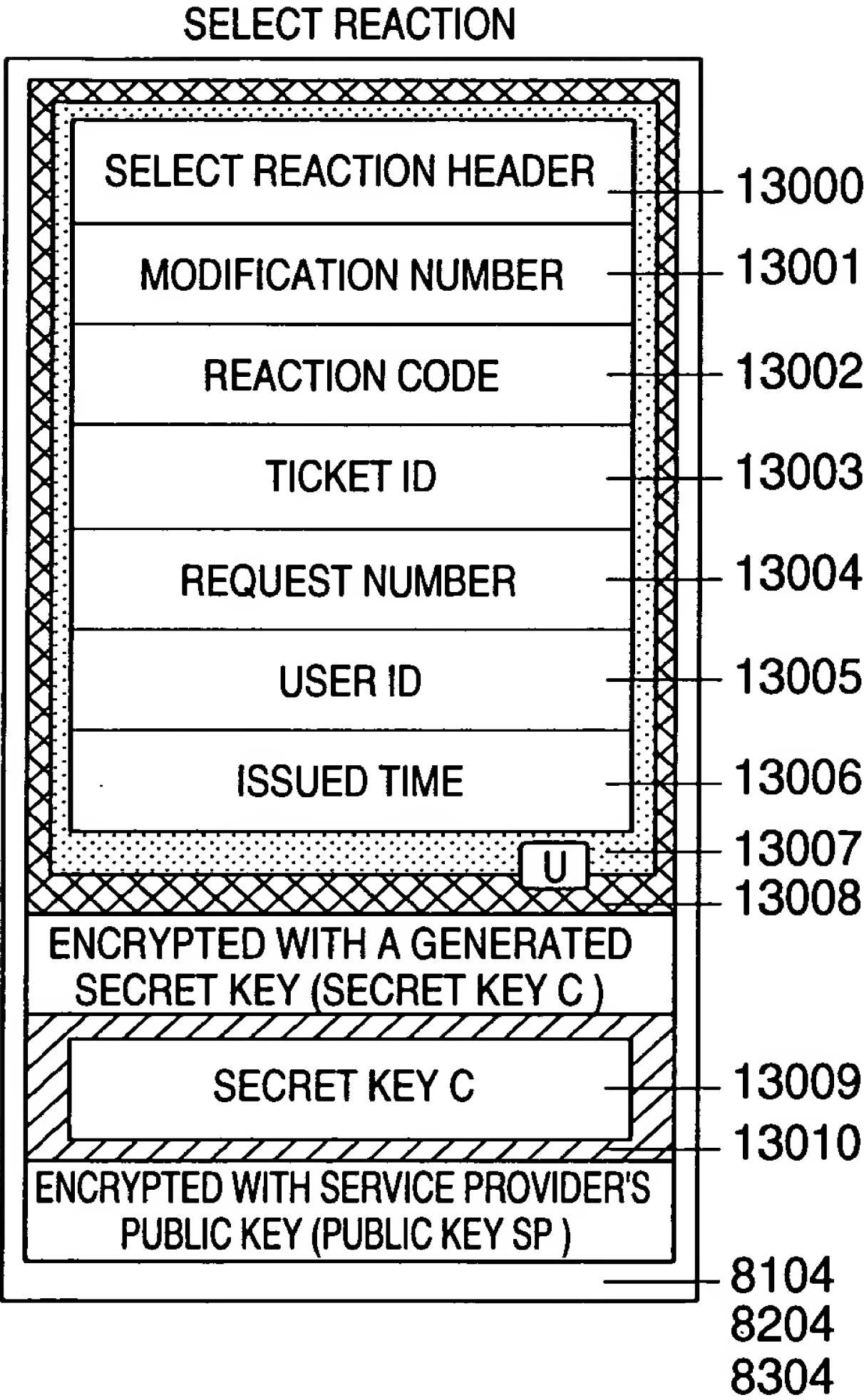


FIG.130B

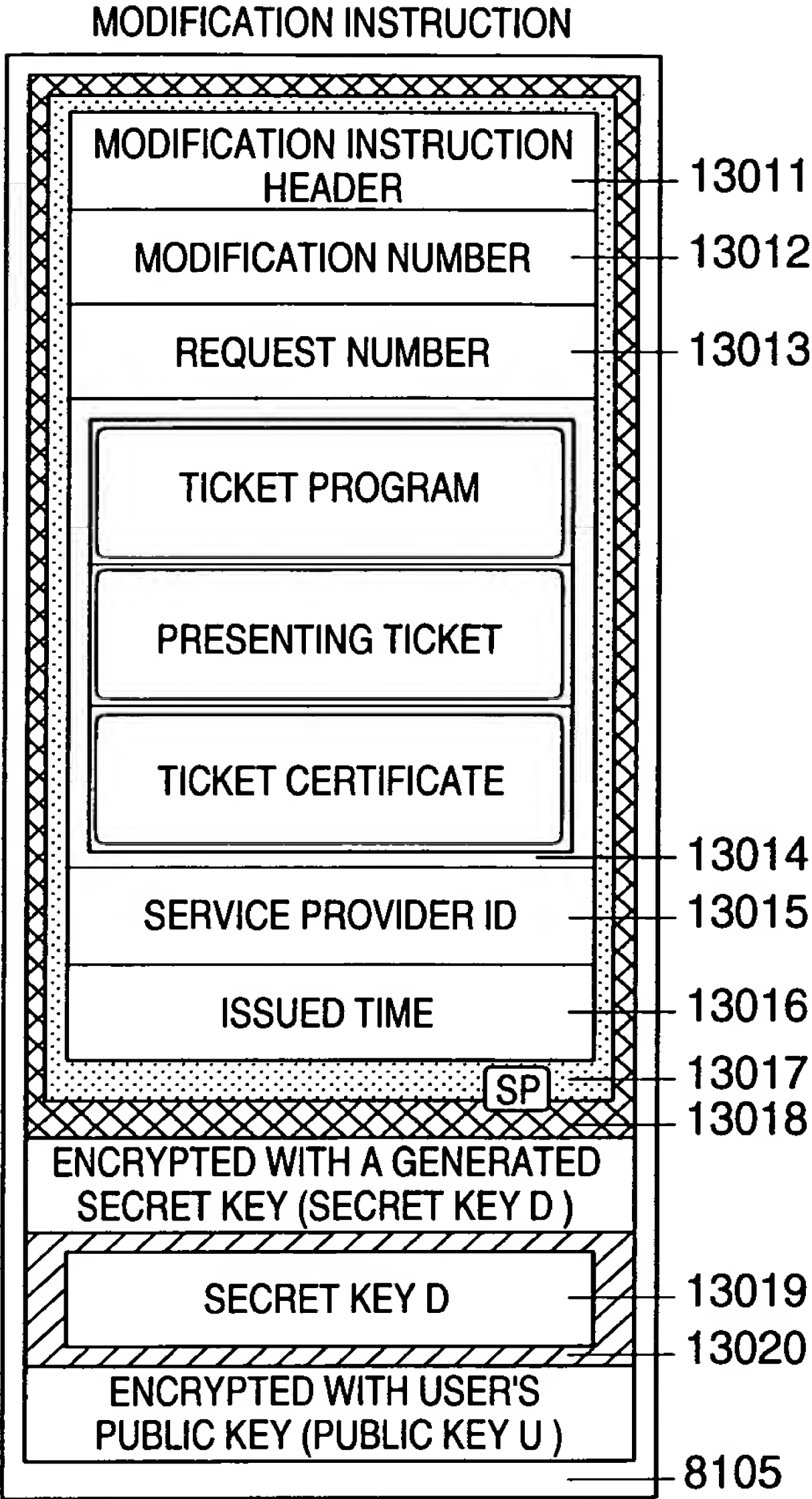




FIG.131A

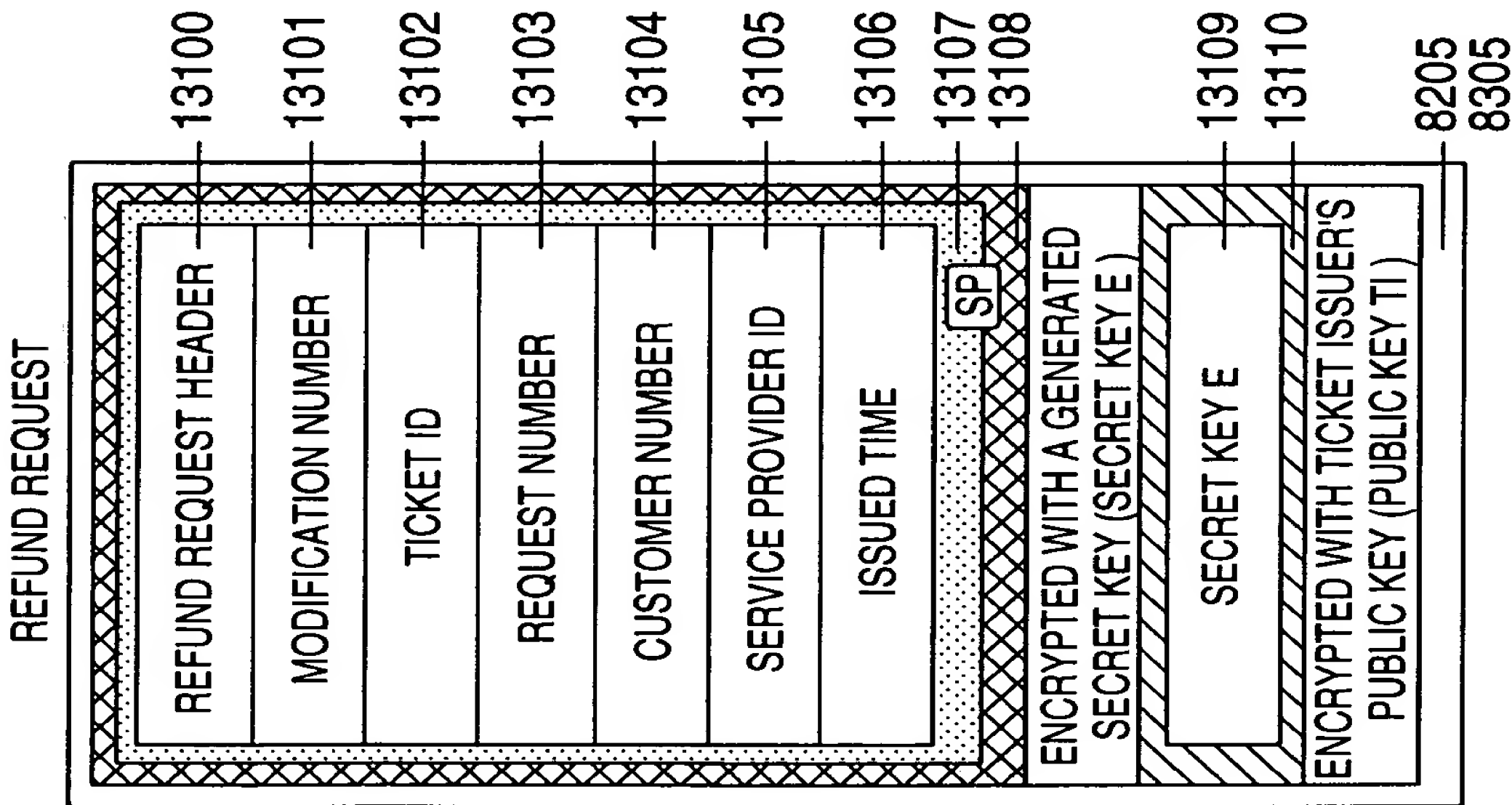


FIG.131B

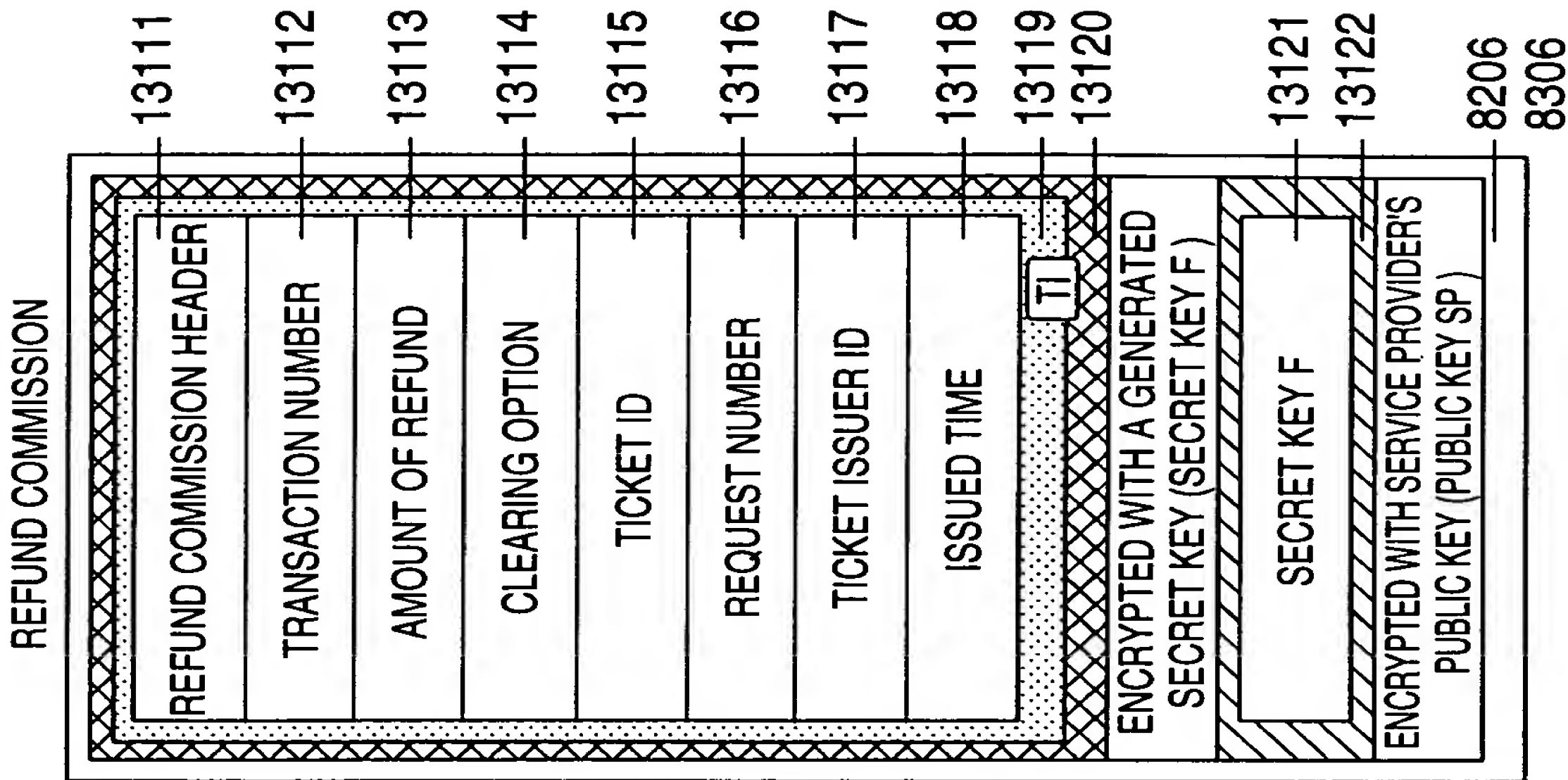
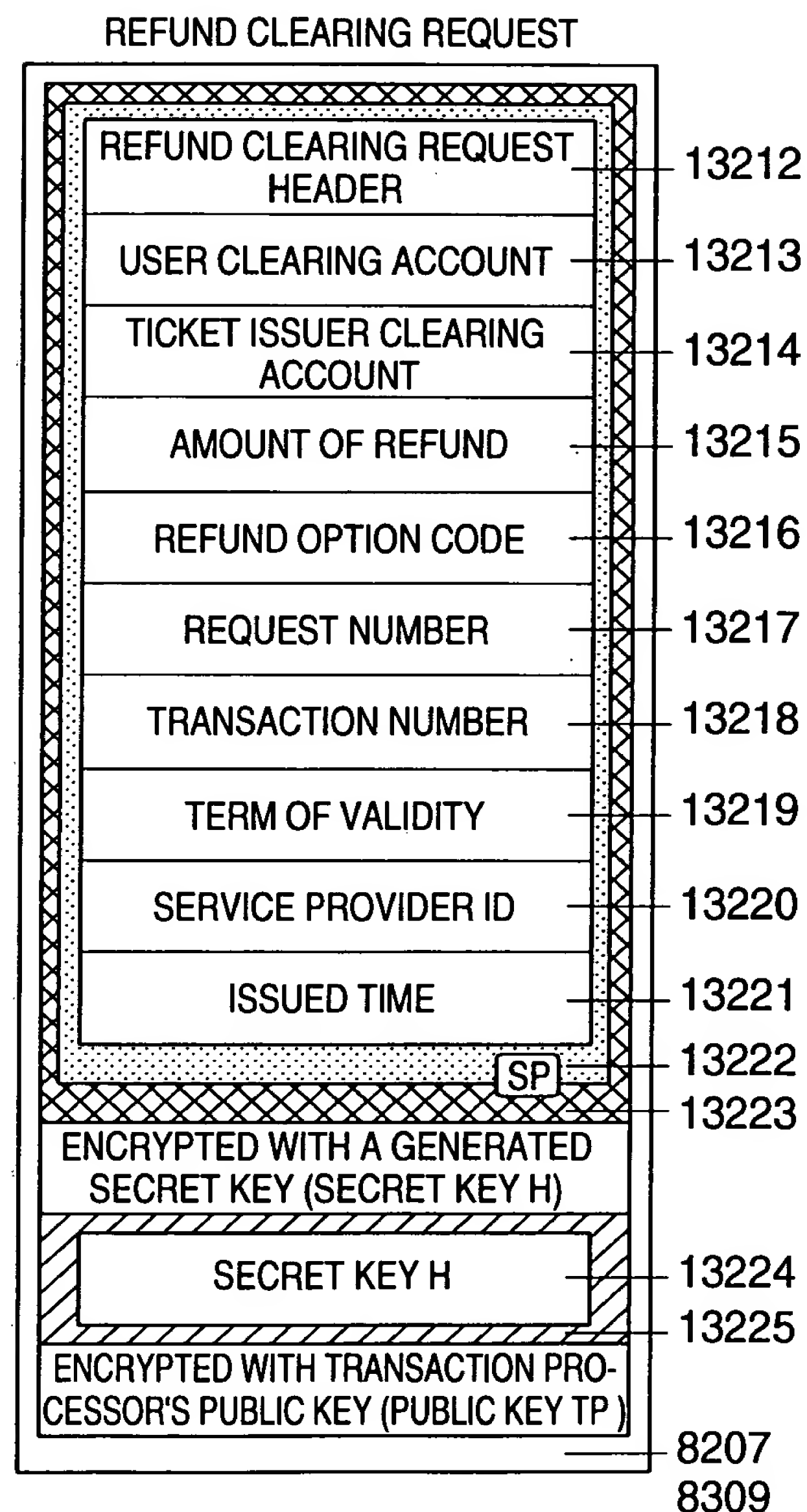


FIG. 132B



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FIG.133A

## REFUND CLEARING COMPLETION TP2SP

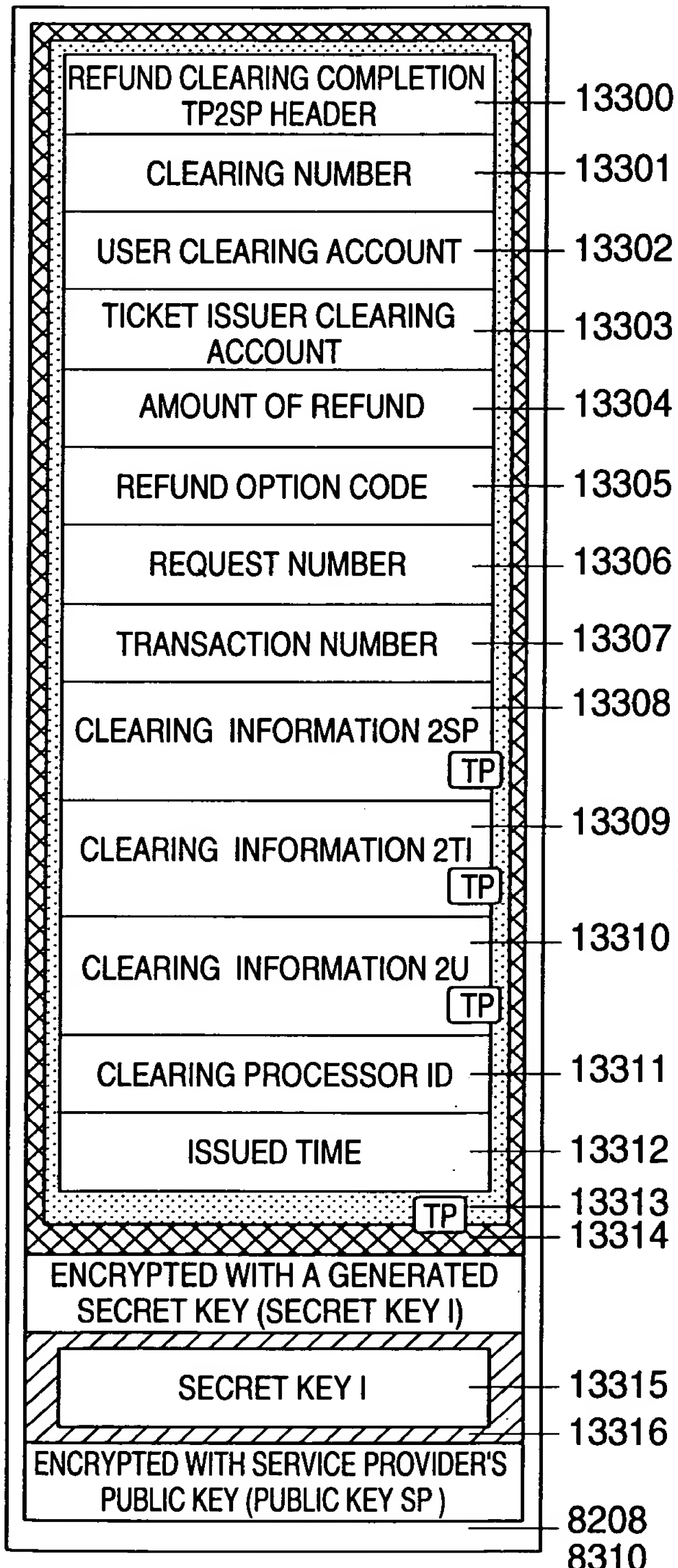
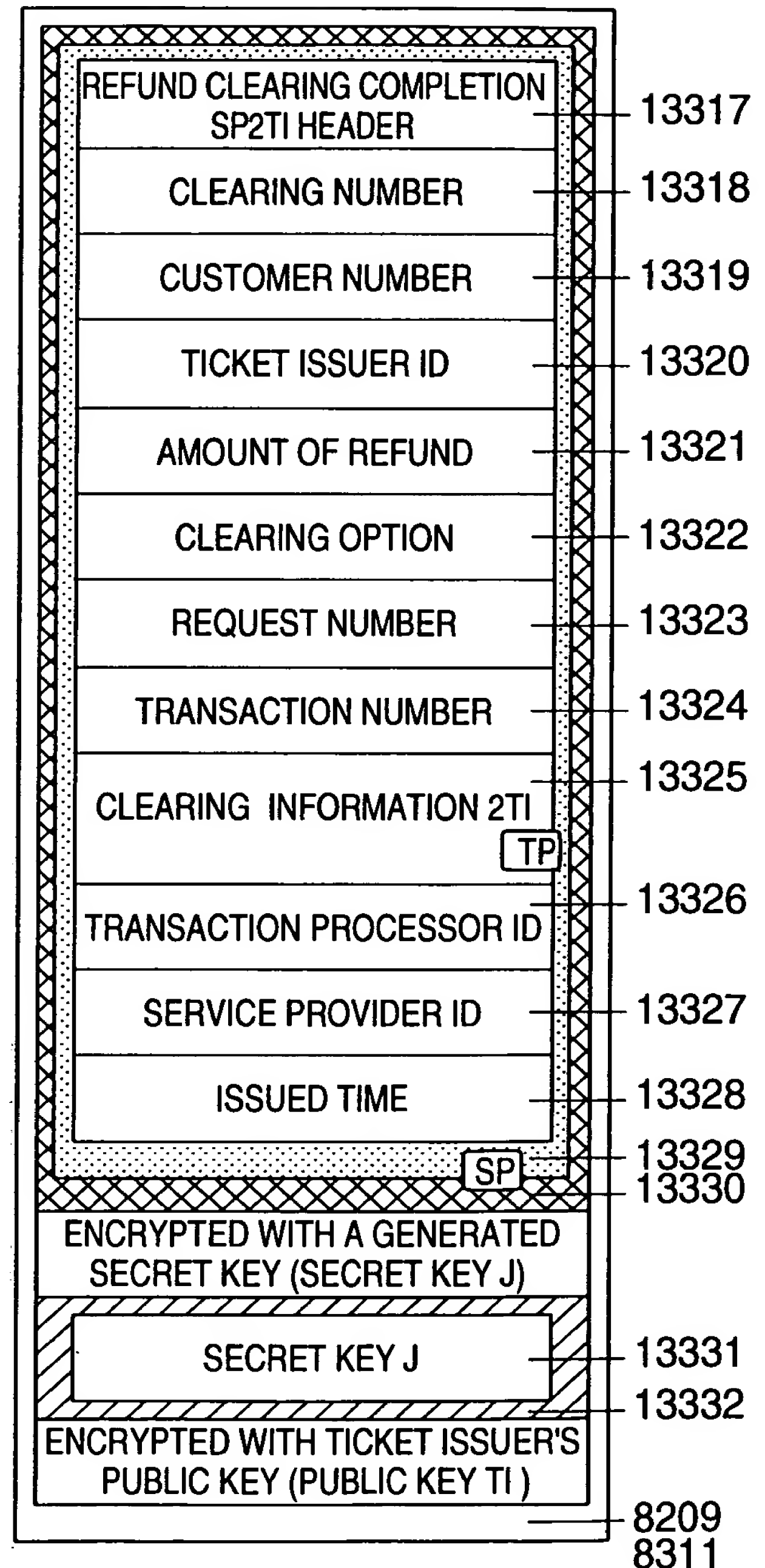


FIG.133B

## REFUND CLEARING COMPLETION SP2TI





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FIG.134A

REFUND RECEIPT TI2SP

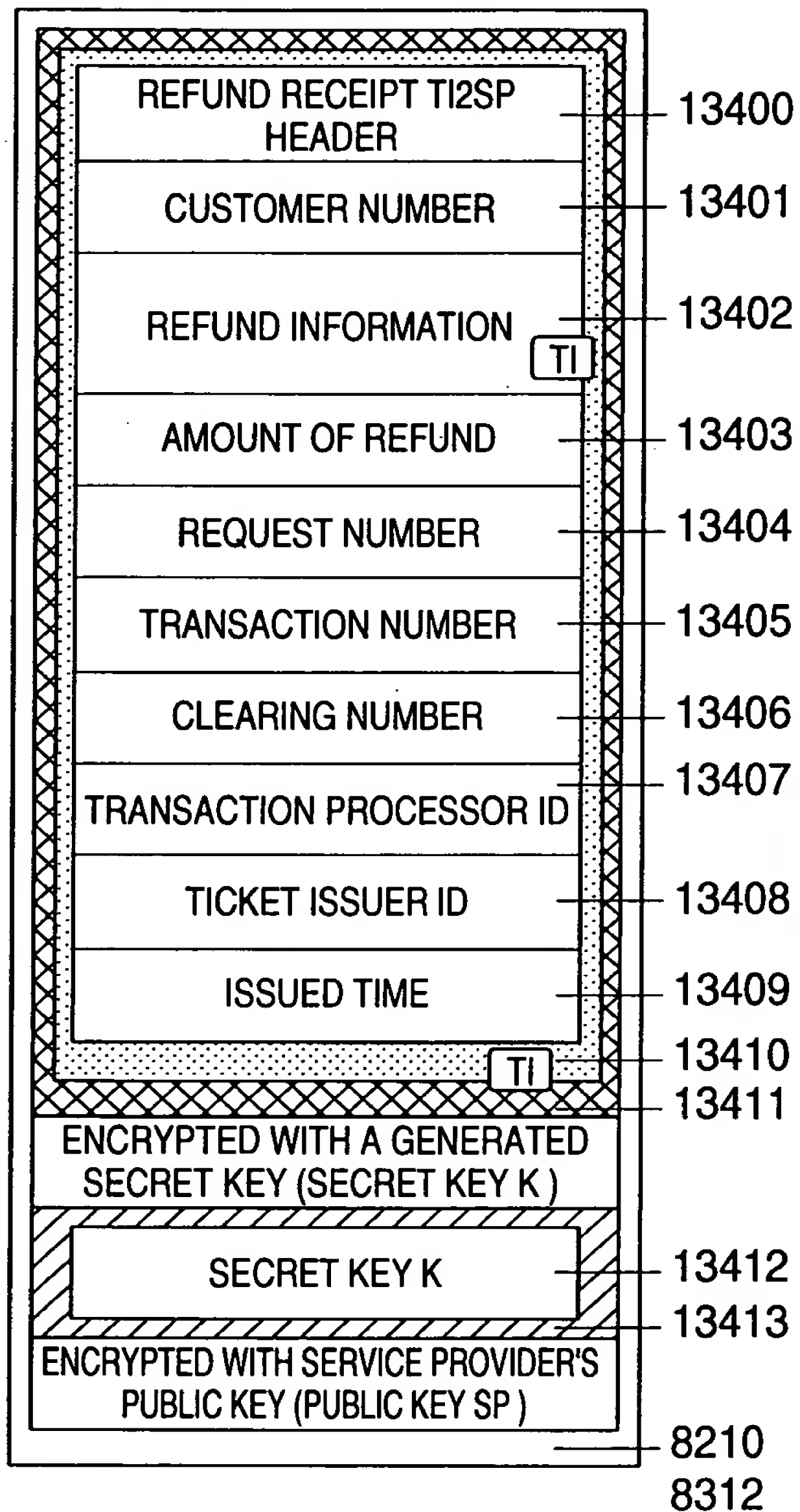


FIG.134B

REFUND RECEIPT SP2U

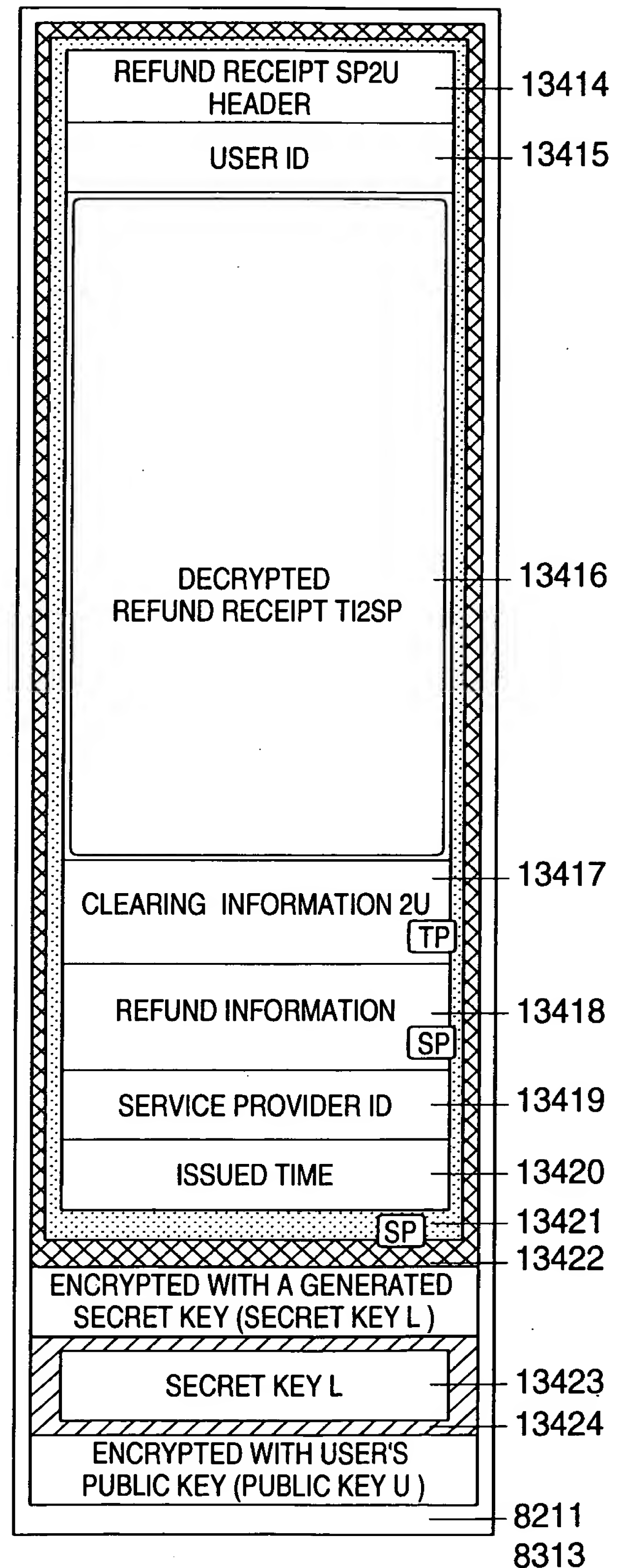


FIG.135A

PAYMENT OFFER

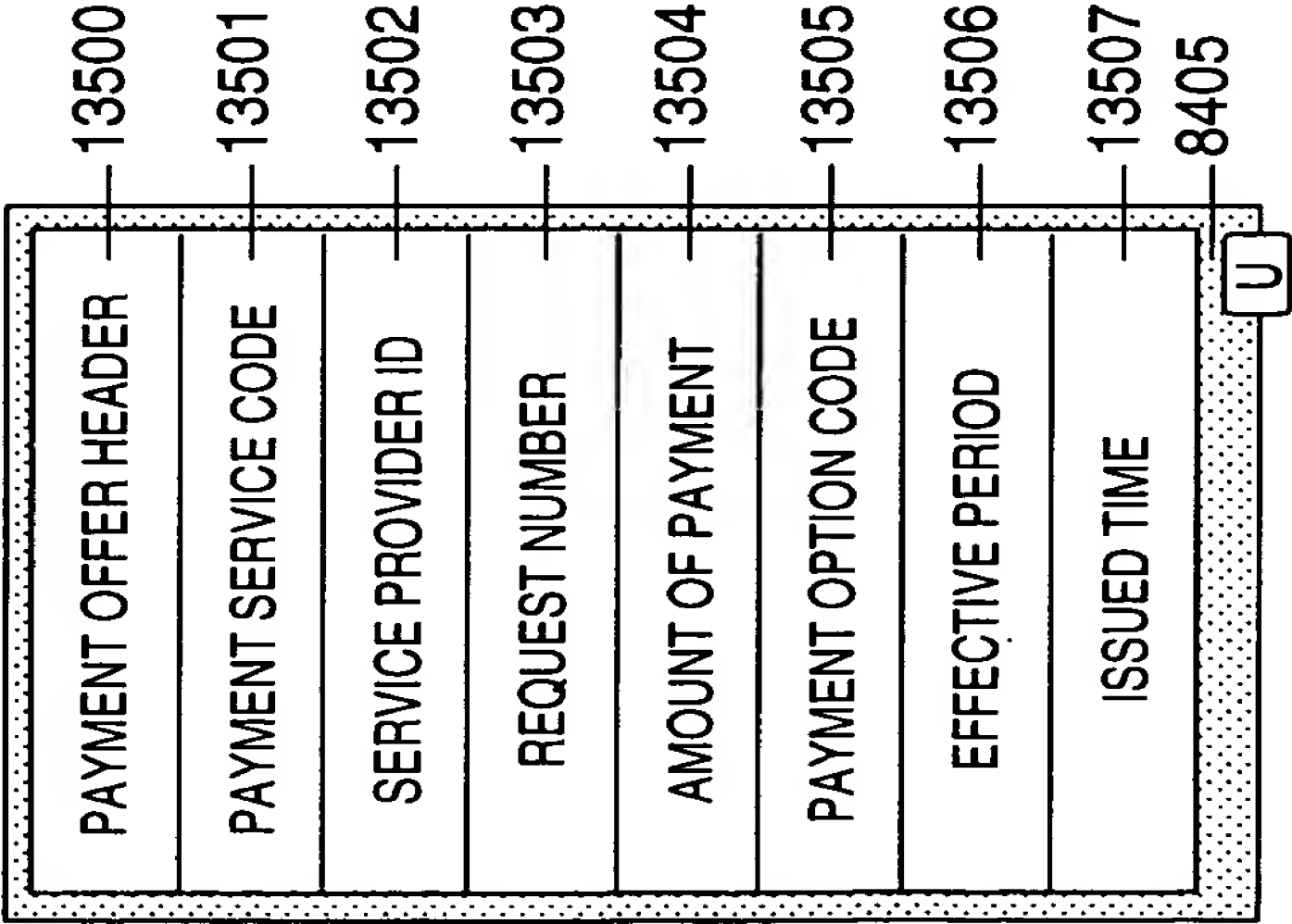


FIG.135B

PAYMENT OFFER RESPONSE

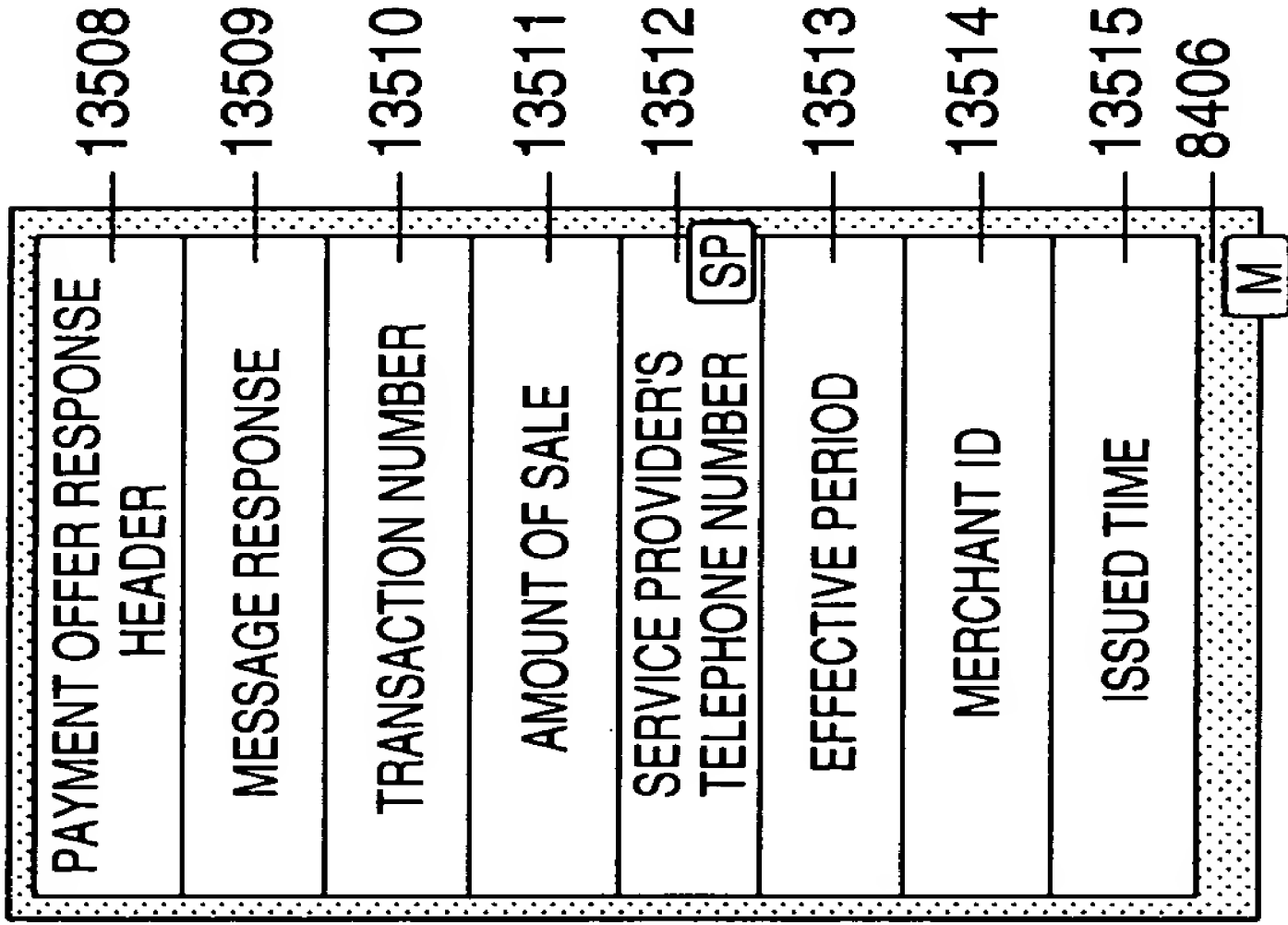


FIG.135C

AUTHORIZATION REQUEST

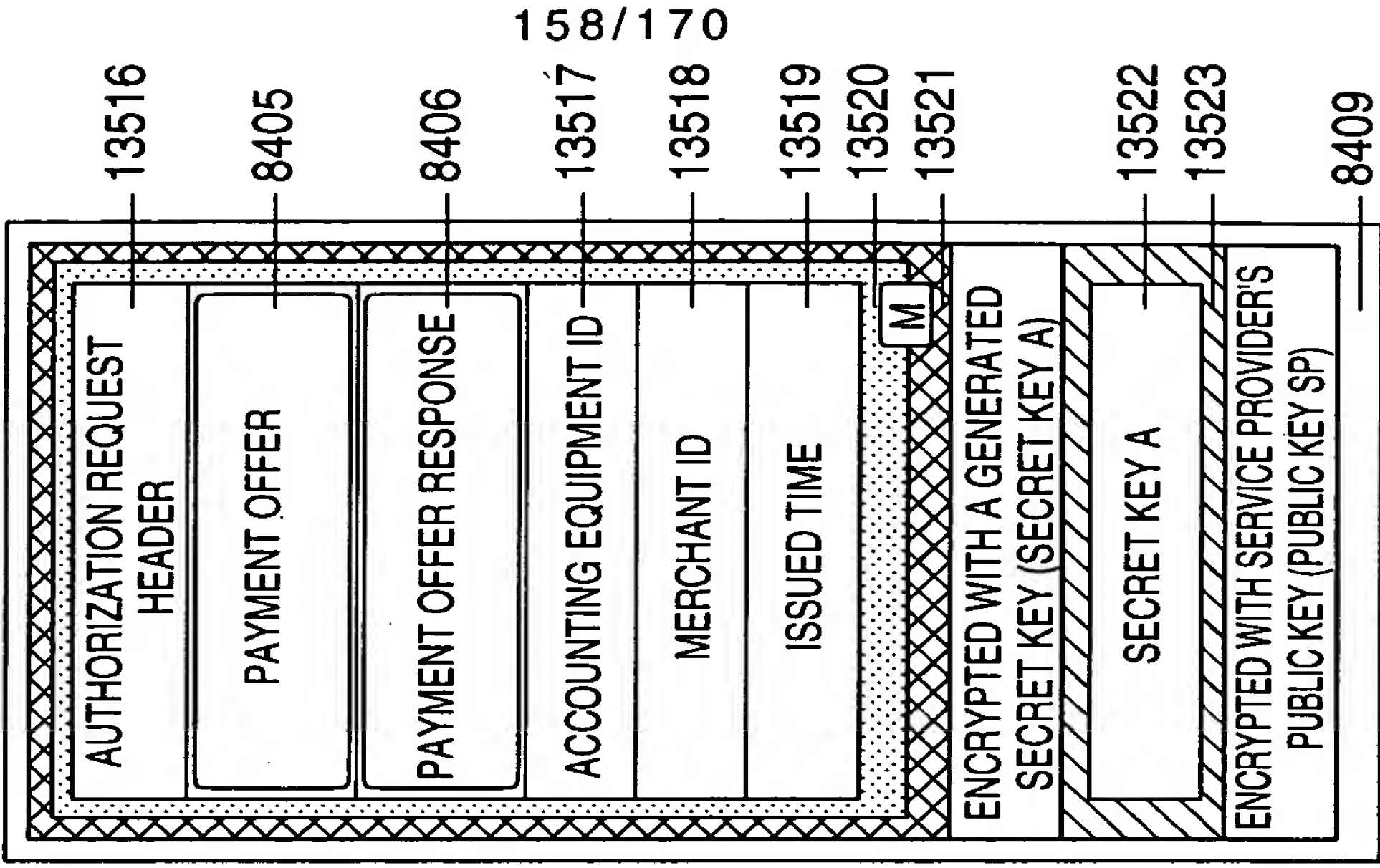


FIG.135D

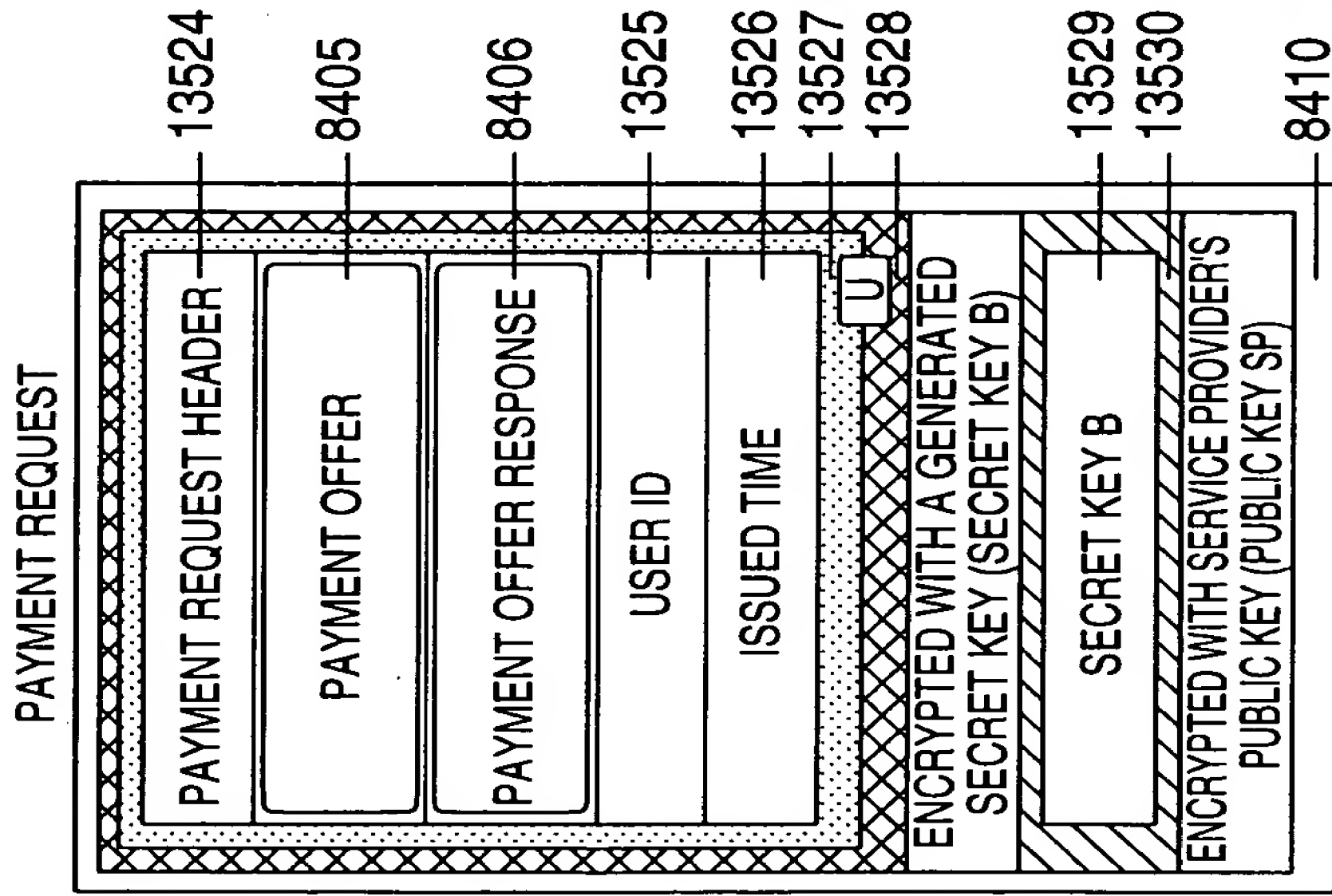


FIG.135E

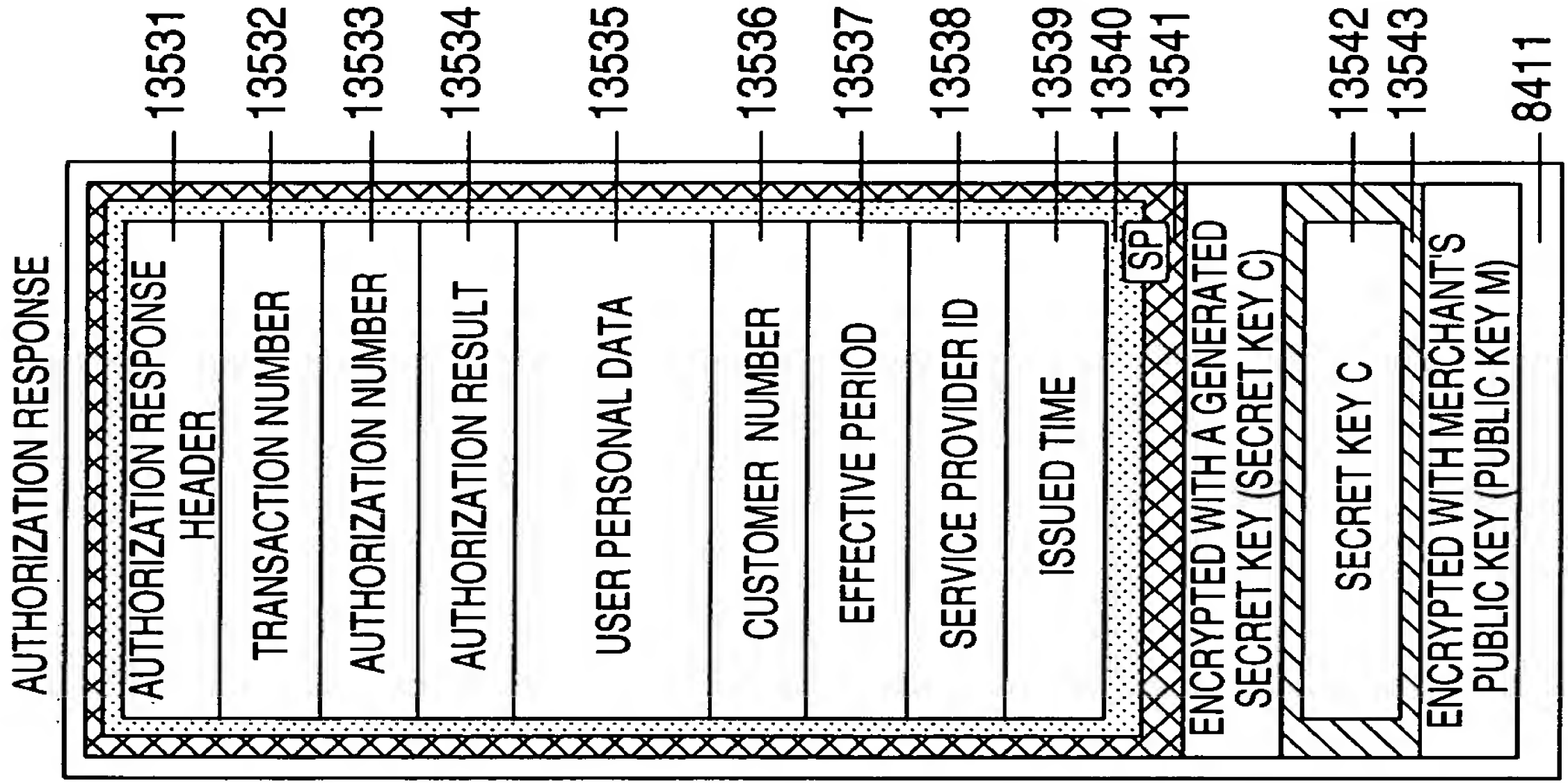
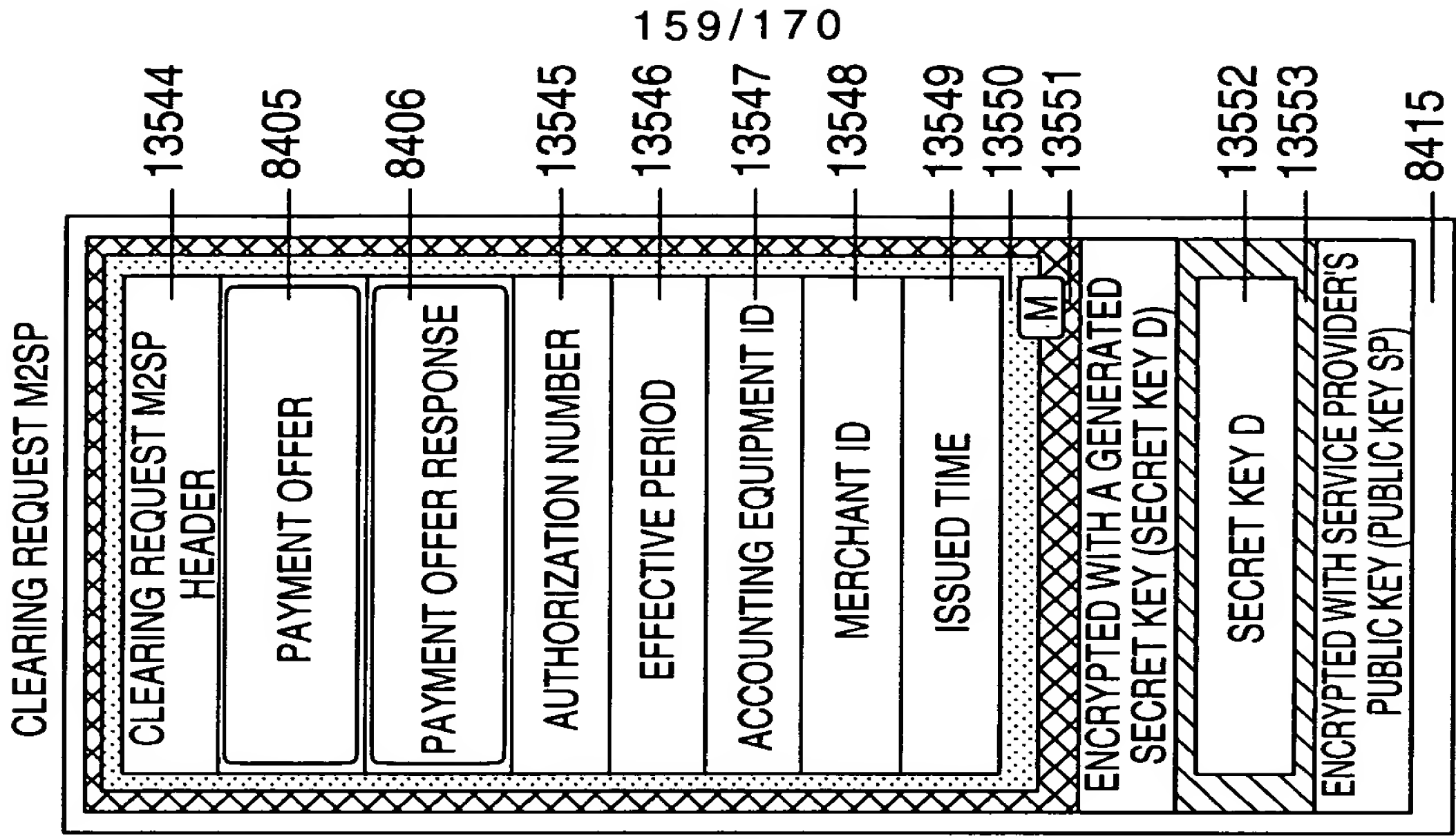


FIG.135F



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FIG.136A

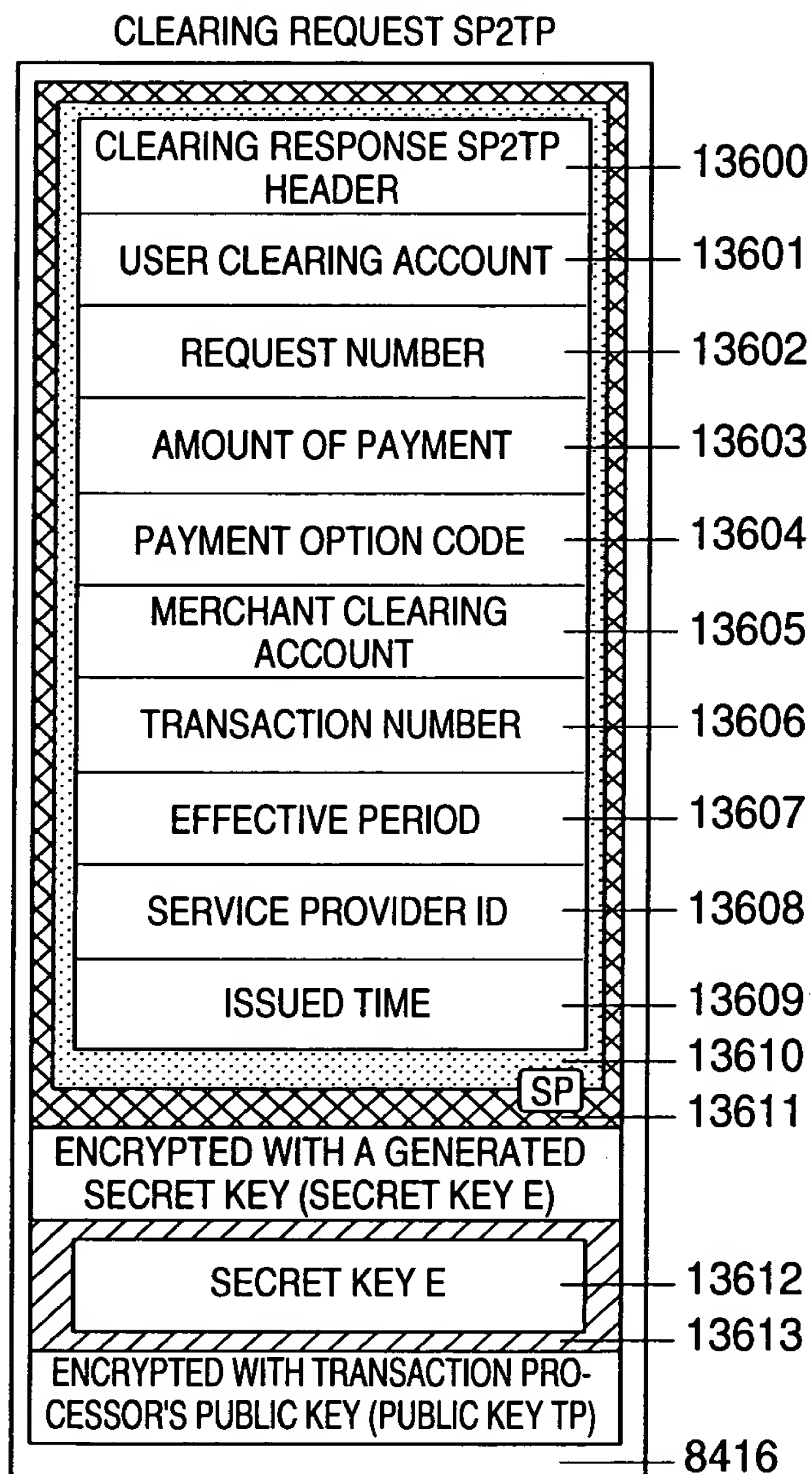


FIG.136B

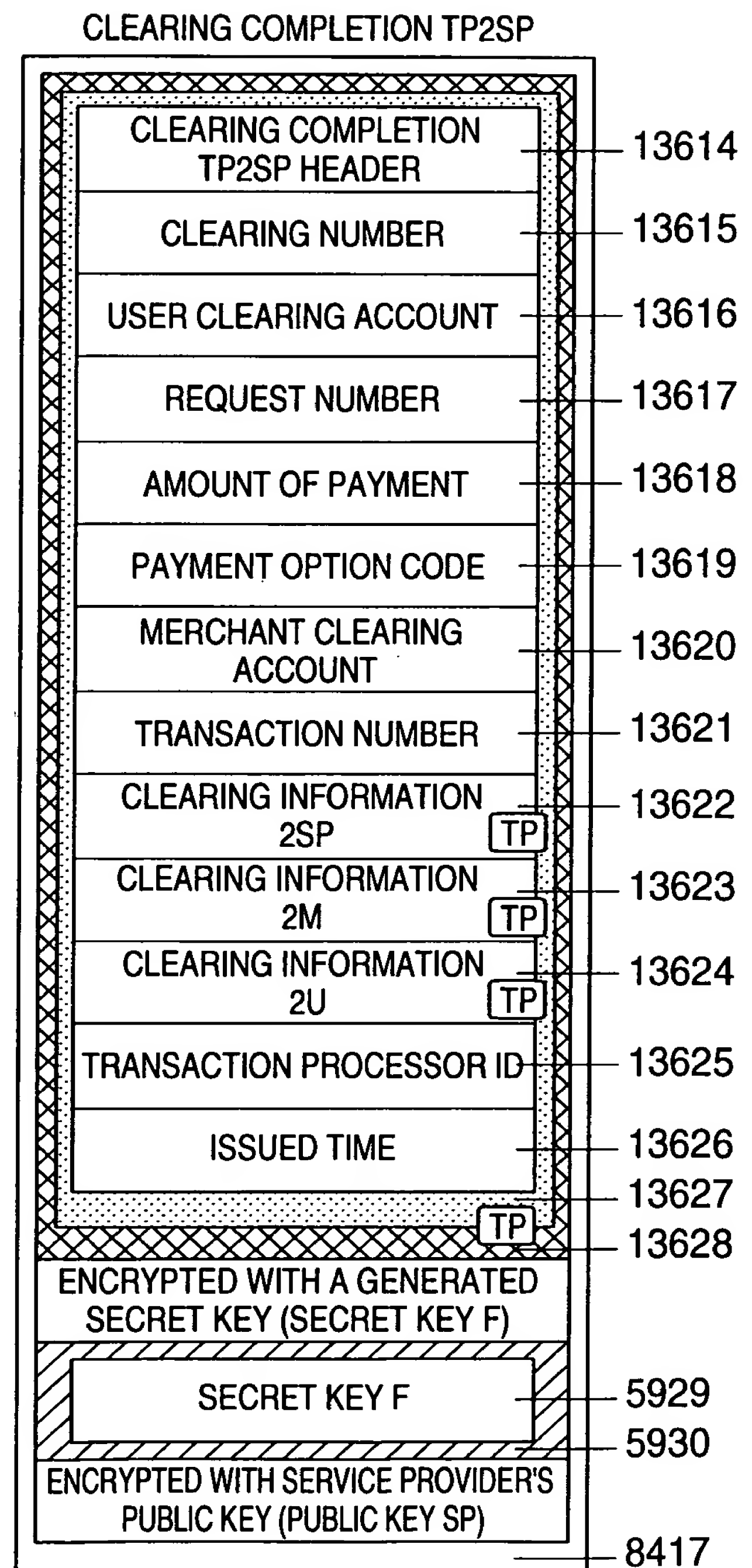


FIG.136C

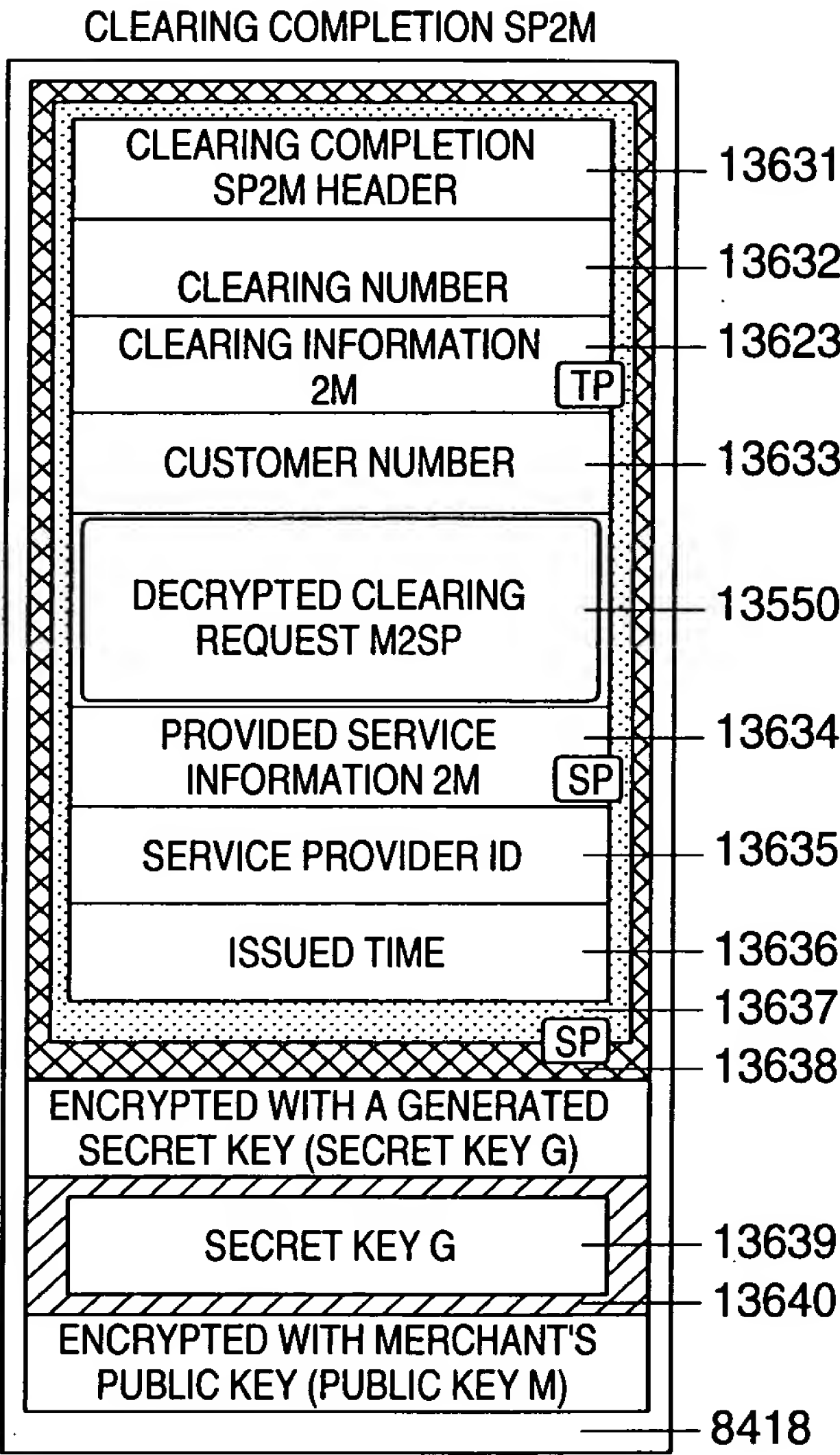


FIG. 137A

RECEIPT M2SP

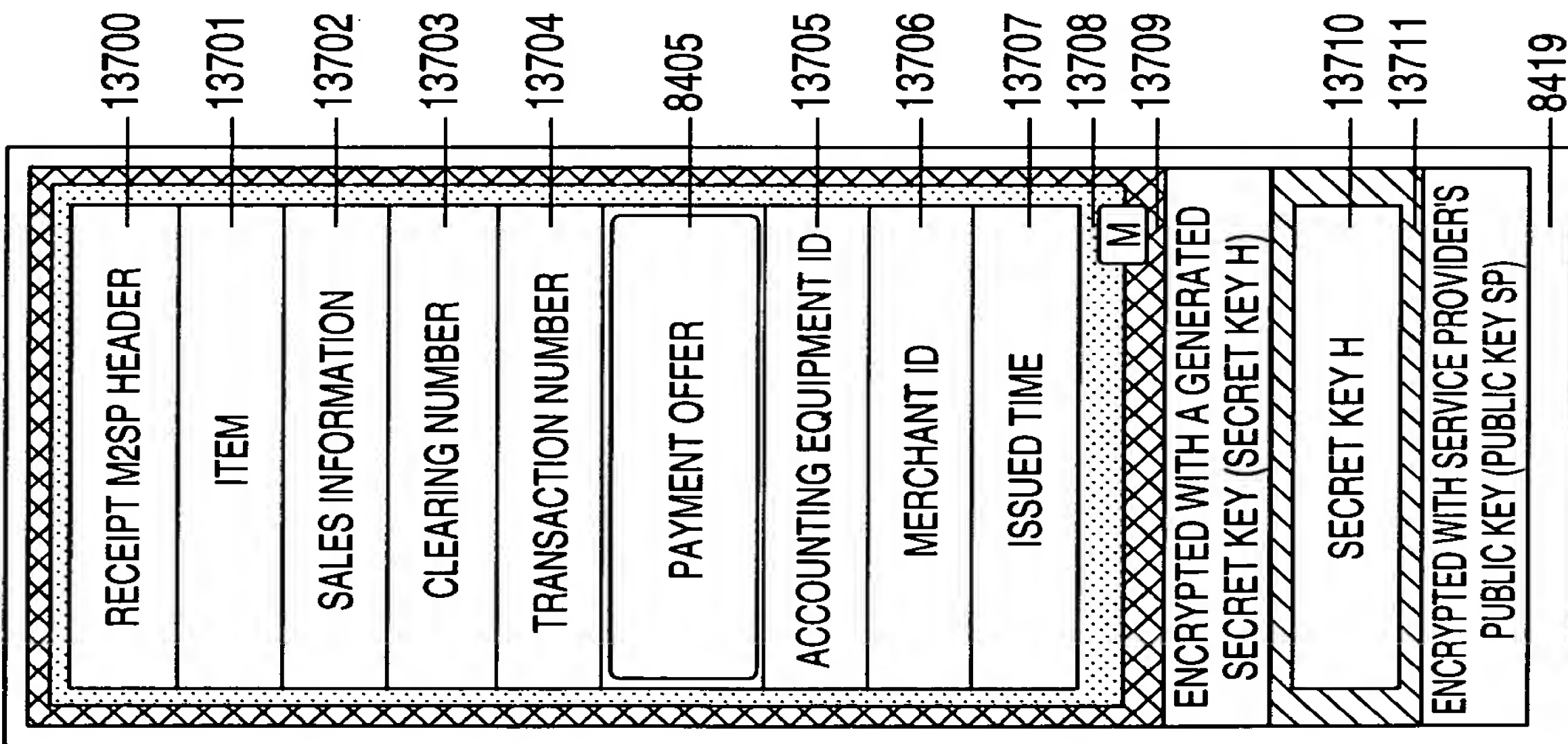


FIG. 137B

RECEIPT SP2U

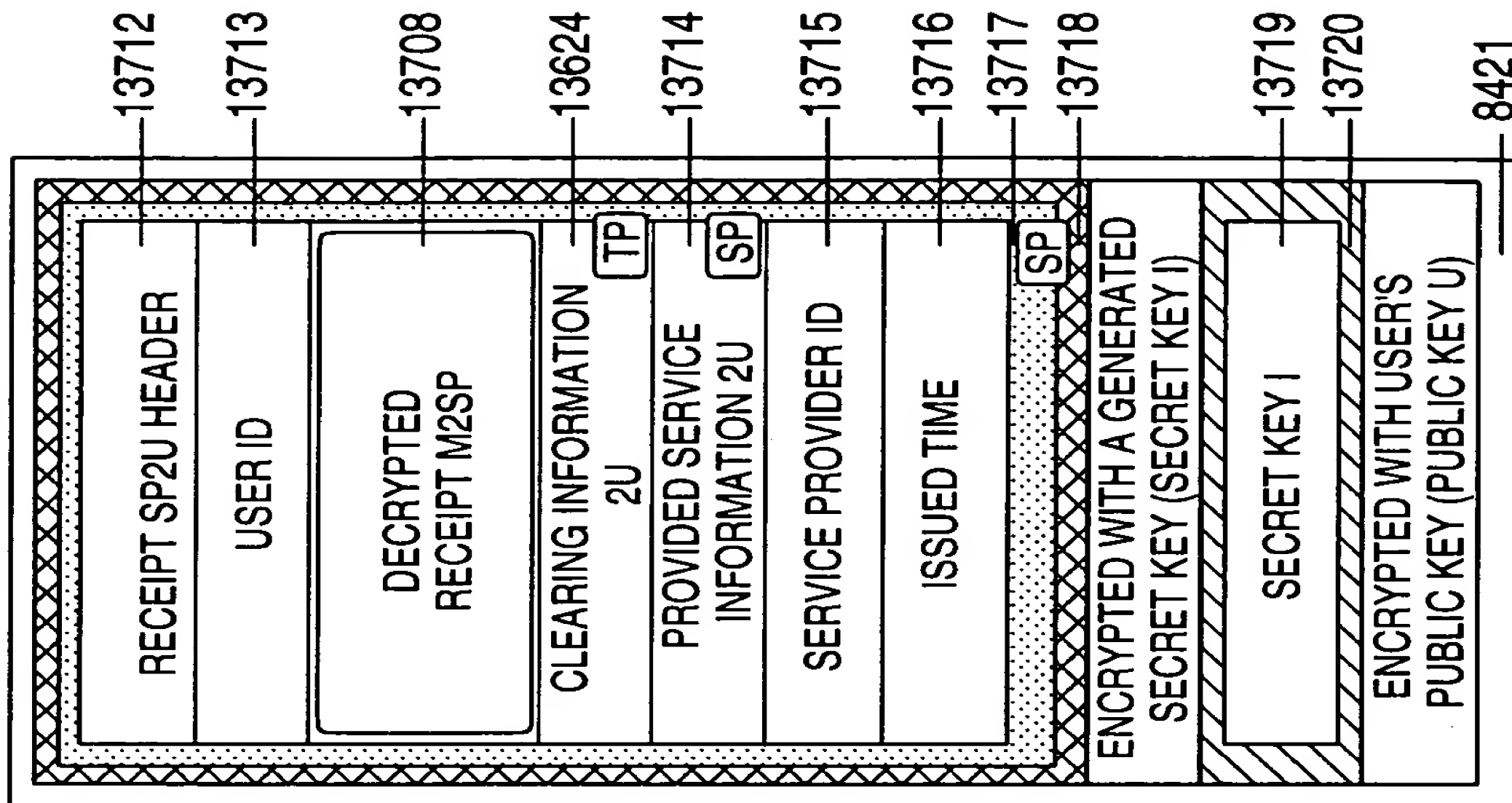




FIG. 138A

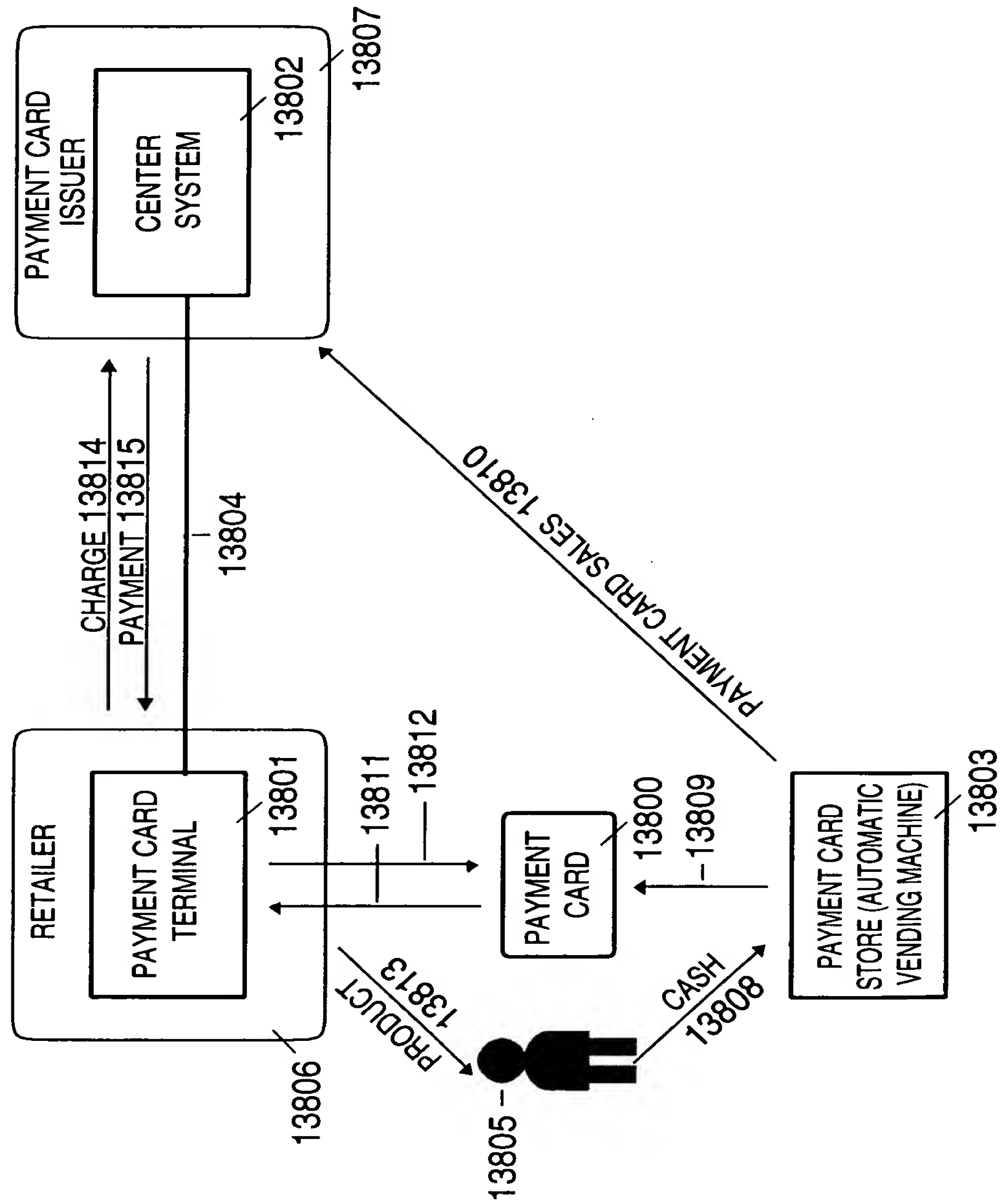


FIG. 138B

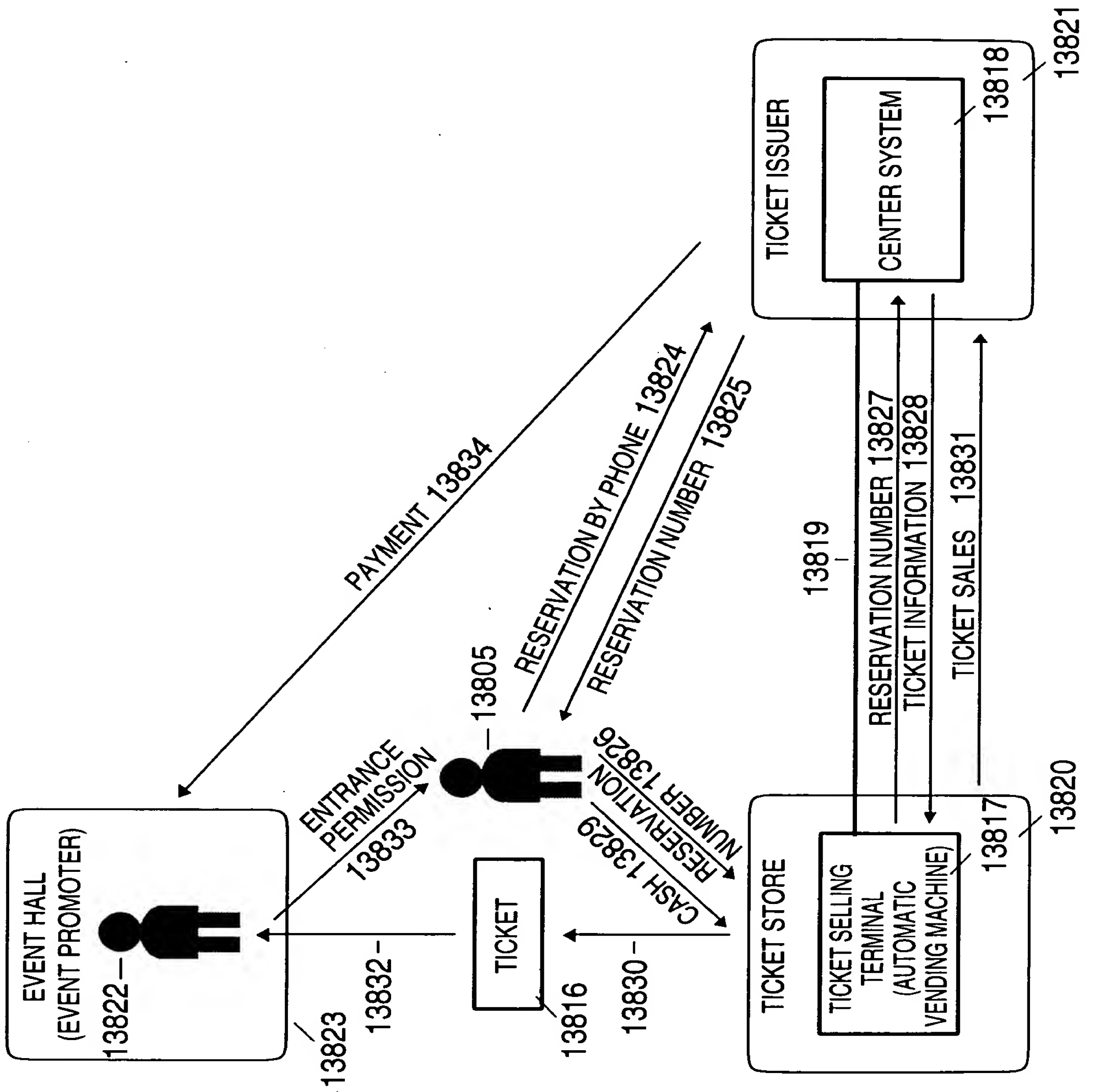
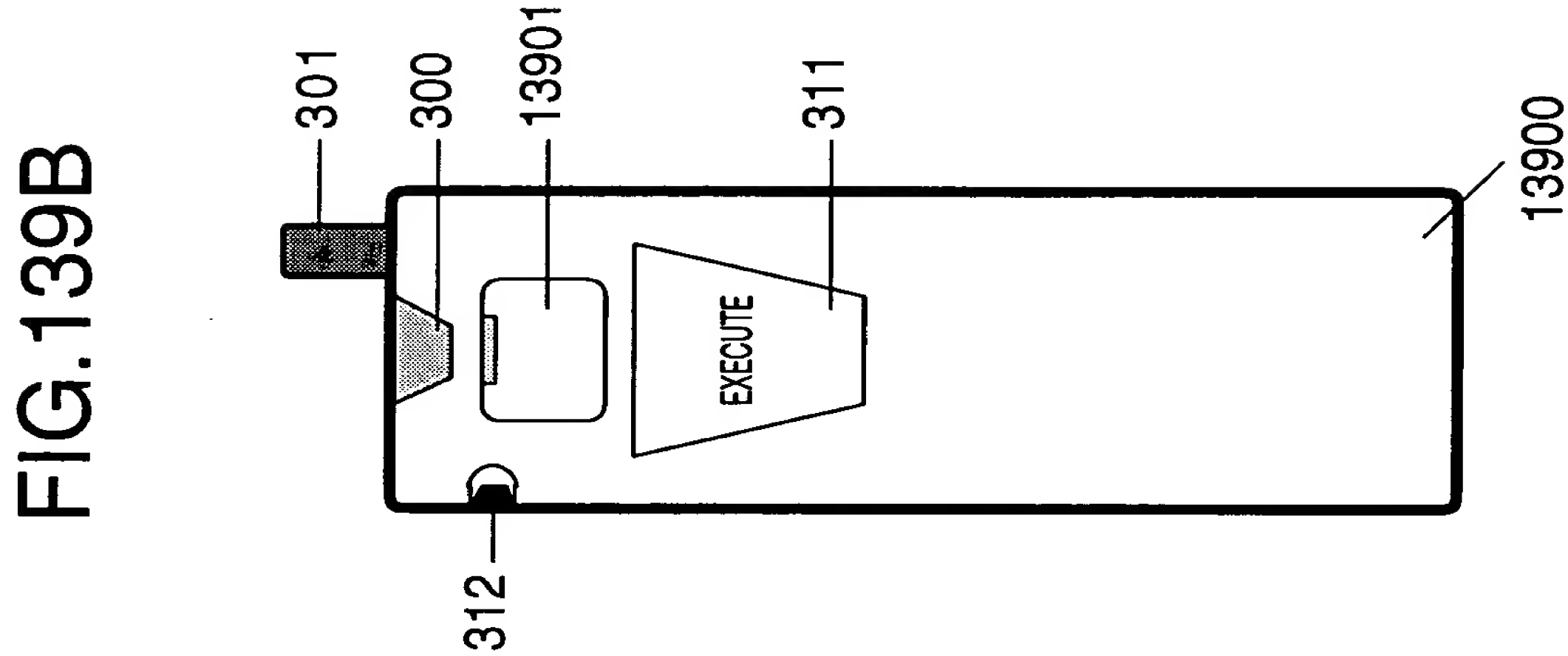
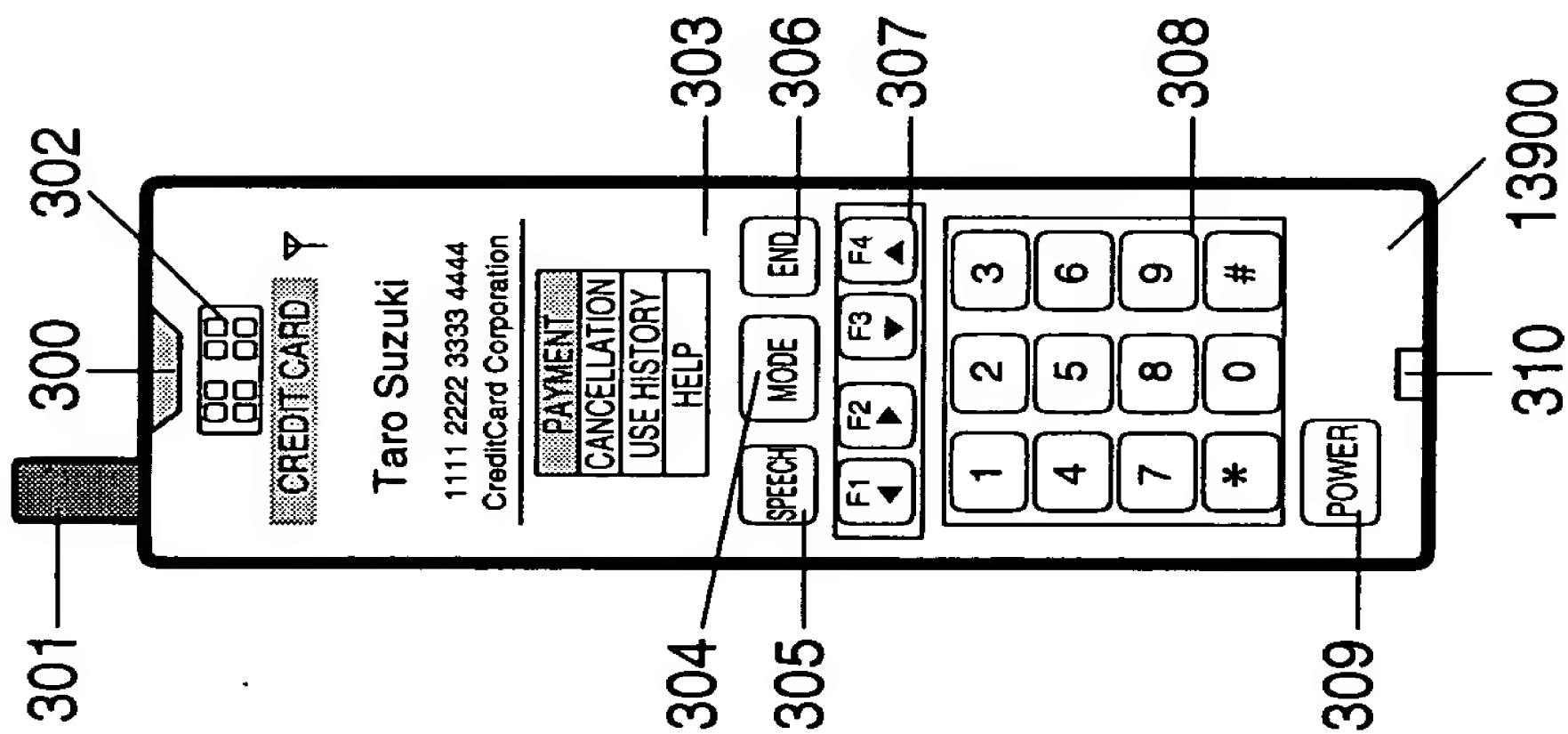
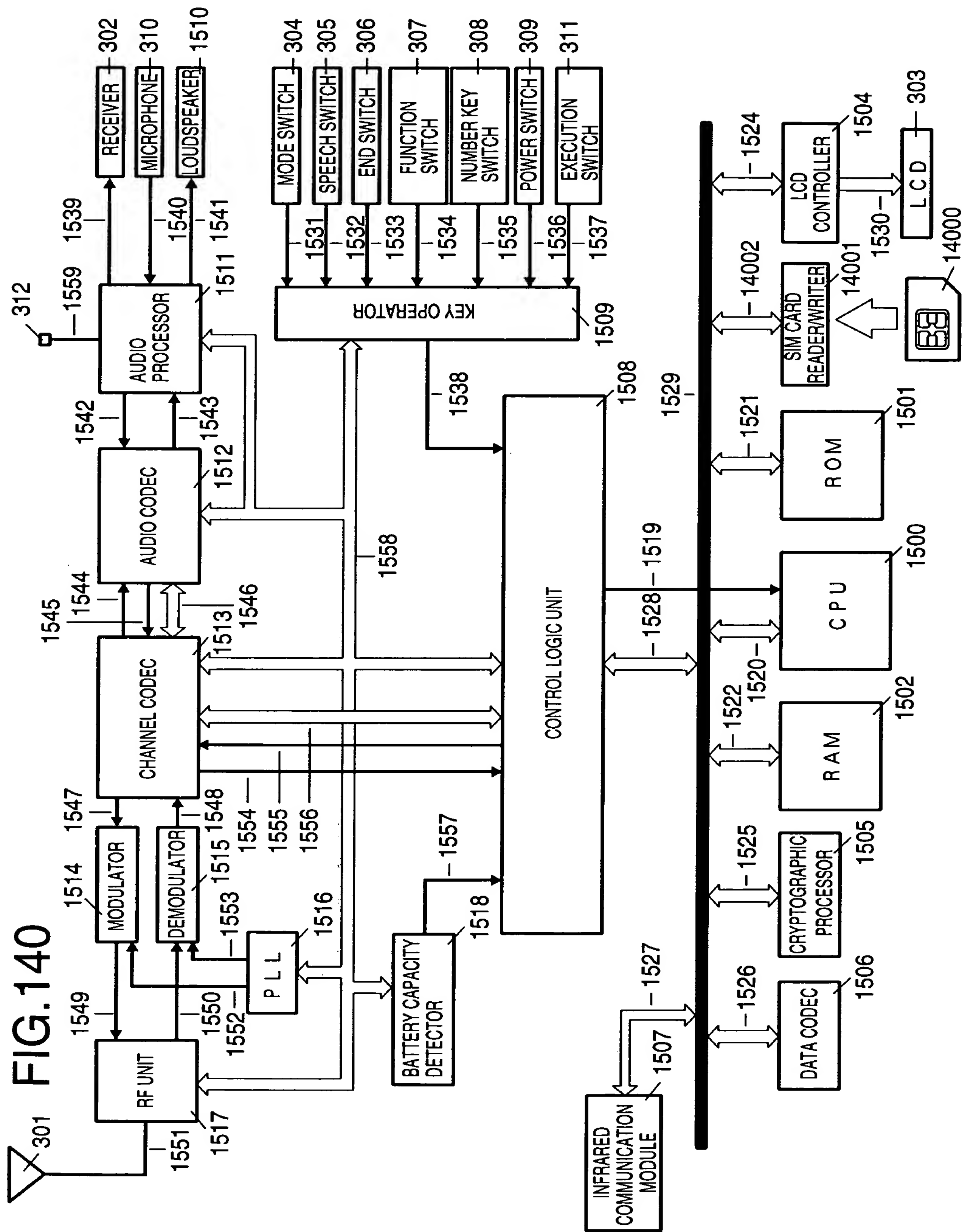




FIG. 139A





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FIG.141A

FIG.141B

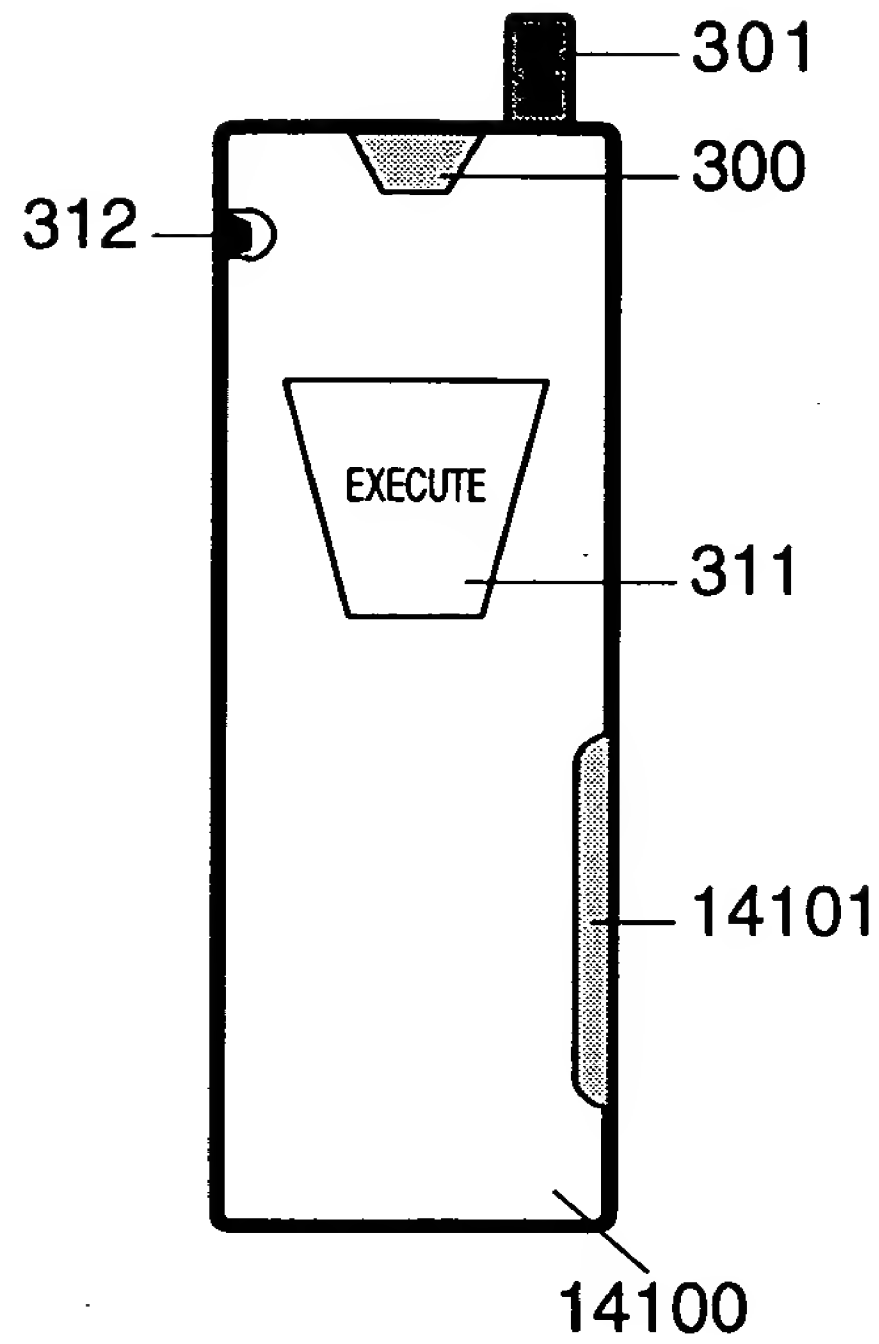
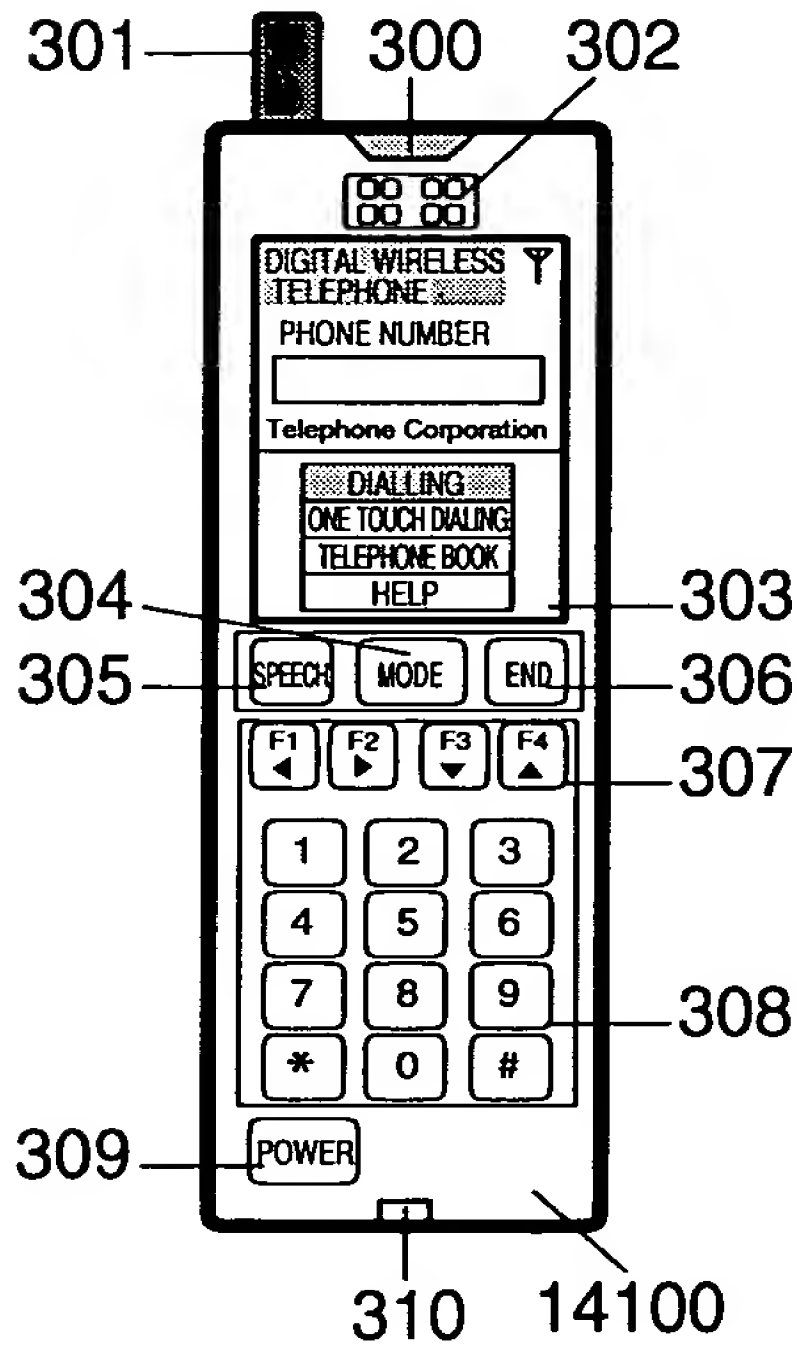
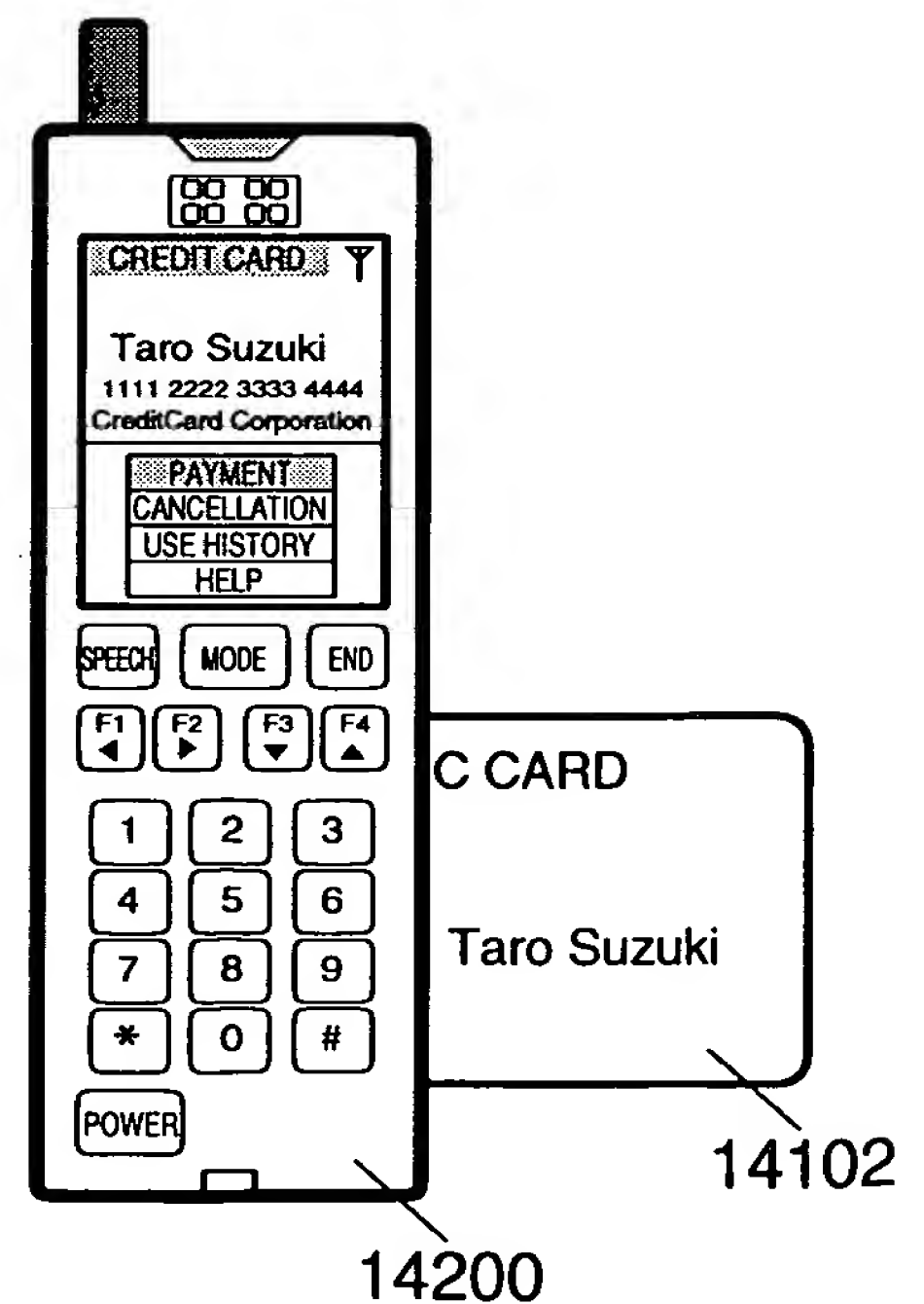
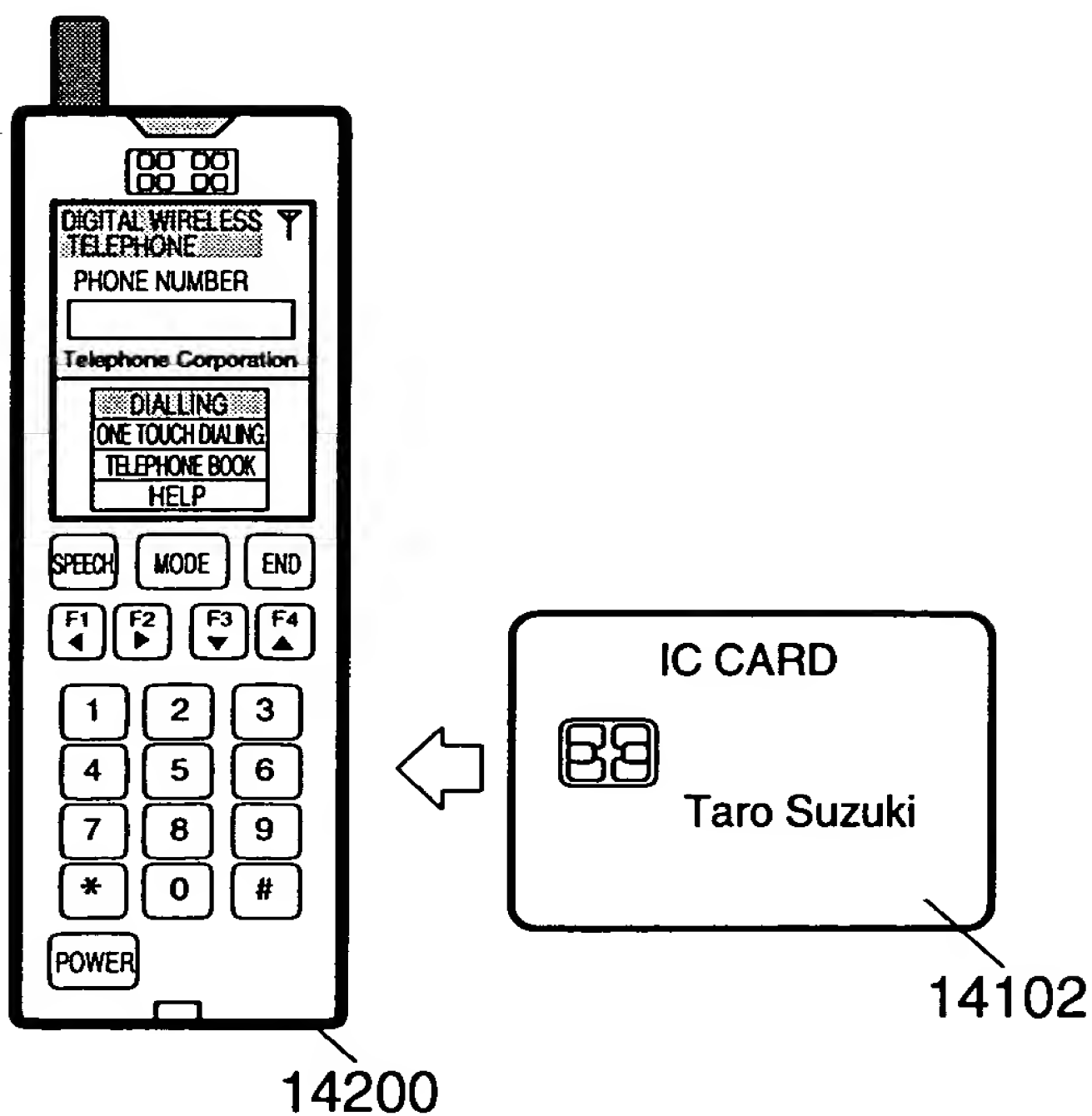


FIG.141C

FIG.141D



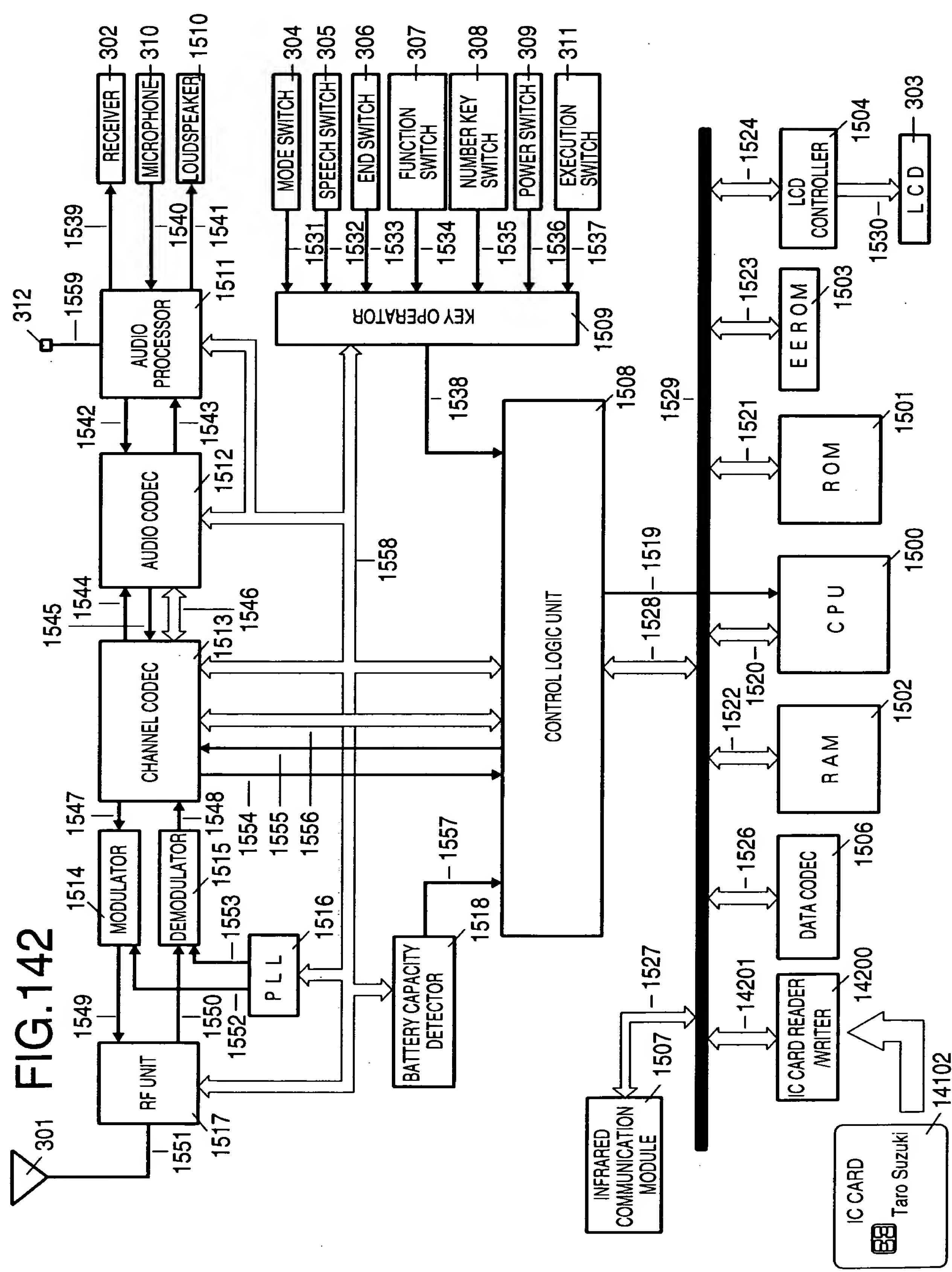
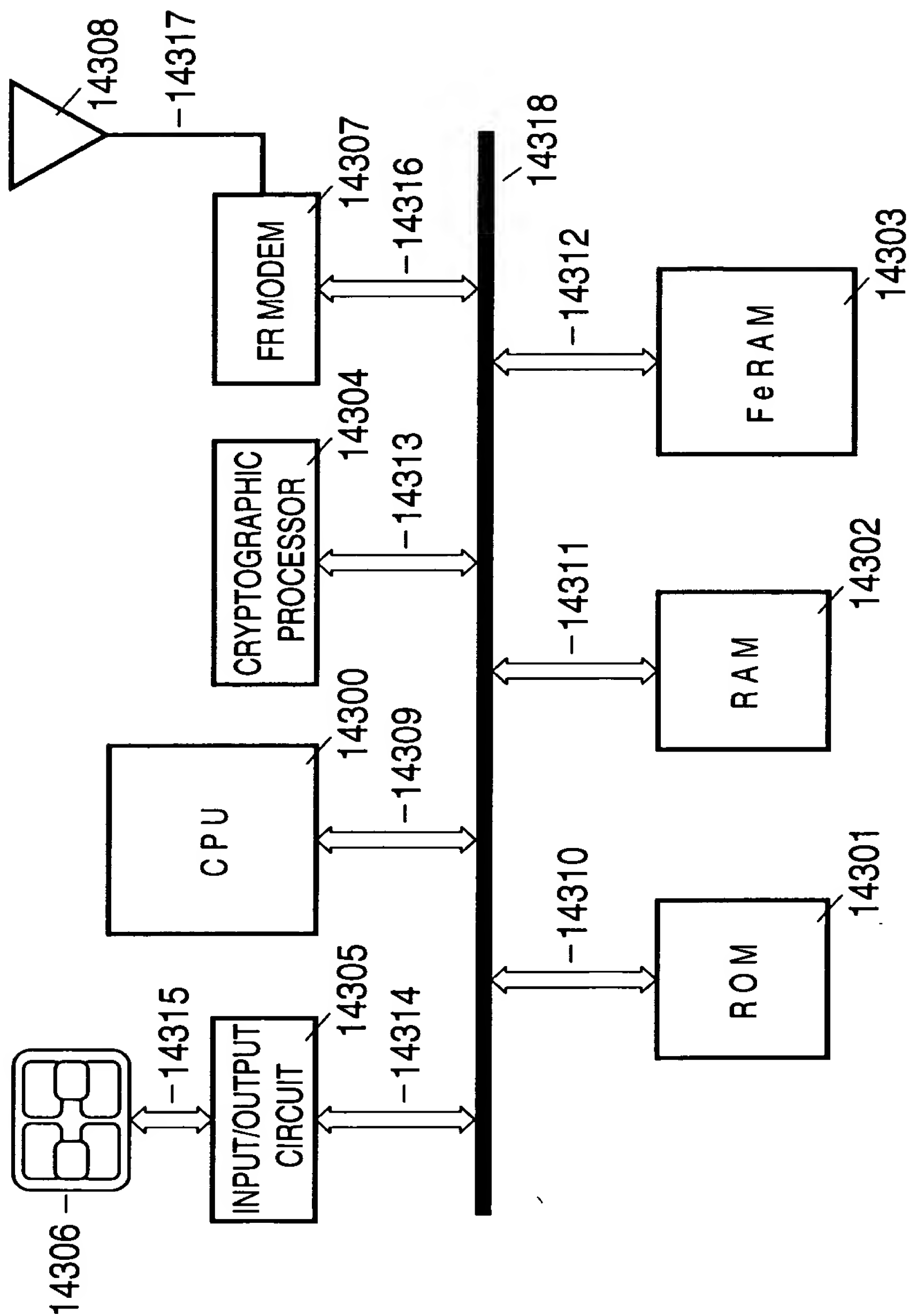


FIG.143

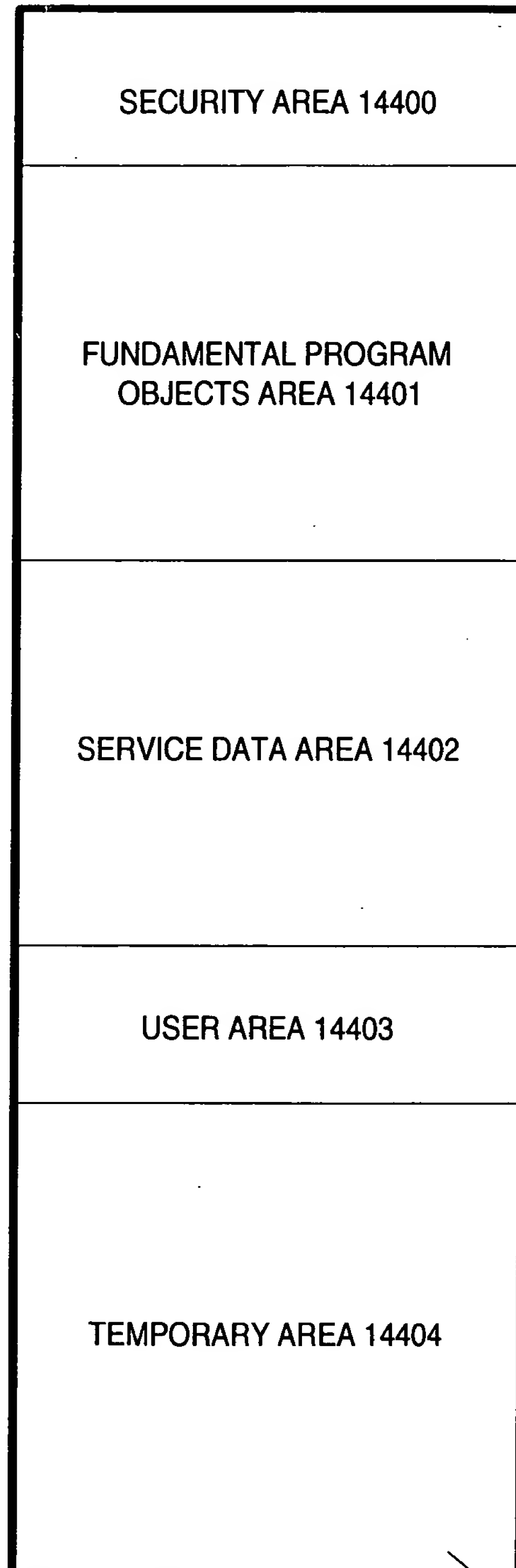


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FIG.144



FeRAM 14303

017-103-1 1200-1200-1200